# Wall Mounted Split Systems

Models:

| | |
|---|---|
| MWM 007G/GR | M5WM 007G/GR |
| MWM 009G/GR | M5WM 009G/GR |
| MWM 010G/GR | M5WM 010G/GR |
| MWM 015G/GR | M5WM 015G/GR |
| MWM 020G/GR | M5WM 020G/GR |
| MWM 025G/GR | M5WM 025G/GR |
| MWM 030F/FR | M5WM 031F/030FR |

McQuay® Air Conditioning

*Engineered for flexibility and performance.™*

# Table of Contents


Nomeneclature ..... 1

- Product Line-up ..... 3

Features ..... 6

Application Information

- Operating Range ..... 9
- Refrigerant Circuit Diagrams ..... 10
- Controllers ..... 17
- Installation ..... 25

Sound Data ..... 39

Engineering and Physical Data

- General Data ..... 43
- Components Data ..... 59

Performance Data ..... 75

- Performance Tables ..... 79

Dimensional Data ..... 106

Electrical Data ..... 110

Wiring Diagrams ..... 118

Servicing And Maintenance ..... 127

Troubleshooting ..... 129

Exploded View & Parts List ..... 134


**Note** : Installation and maintenance are to be performed only by qualified personnel who are familiar with local codes and regulations, and experienced with this type of equipment.

**Caution**: Sharp edges and coil surfaces are a potential injury hazard. Avoid contact with them.

**Warning** : Moving machinery and electrical power hazard. May cause severe personal injury or death. Disconnect and lock off power before servicing equipment.


"McQuay" is a registered trademark of McQuay International. All rights reserved.

ⓒ 2007 McQuay International. All rights reserved throughout the world.

Bulletin illustrations cover the general appearance of McQuay International products at the time of publication.
We reserve the right to change design and construction specifications at any time without notice.


CE

# Nomenclature

## Indoor

**Others**

A : First issue

**Grille Type**

A : Grille A

**Air Treatment Devices & Control**

I : Negative Ion with wireless controller
N : NTP with wireless controller
X : Oxygen unit

**Market Region**

C : Export with CE mark
U : UTL Spec.

**Electrical**

A : 220 - 240V/1Ph/50Hz

**Model Type**

R : Heatpump
Omitted if Cooling Only

**Series**

G : G series

**Capacity**

010 : 9,500 Btu/h

**Model Name**

WM : Wall Mounted

**Refrigerant**

5 : R410A
Omitted if R22

**Brand**

M : McQuay

## Outdoor

**Others**

A : First issue

**Specification Variation**

| | |
|---|---|
| O : Standard Unit | I : Gold Fins |
| B : With Contactor | L : Long Piping Unit |
| G : Low Ambient Kit | S : With H/L Pressure Switch |
| H : High Ambient Kit | X : Oxygen Unit |

**Compressor**

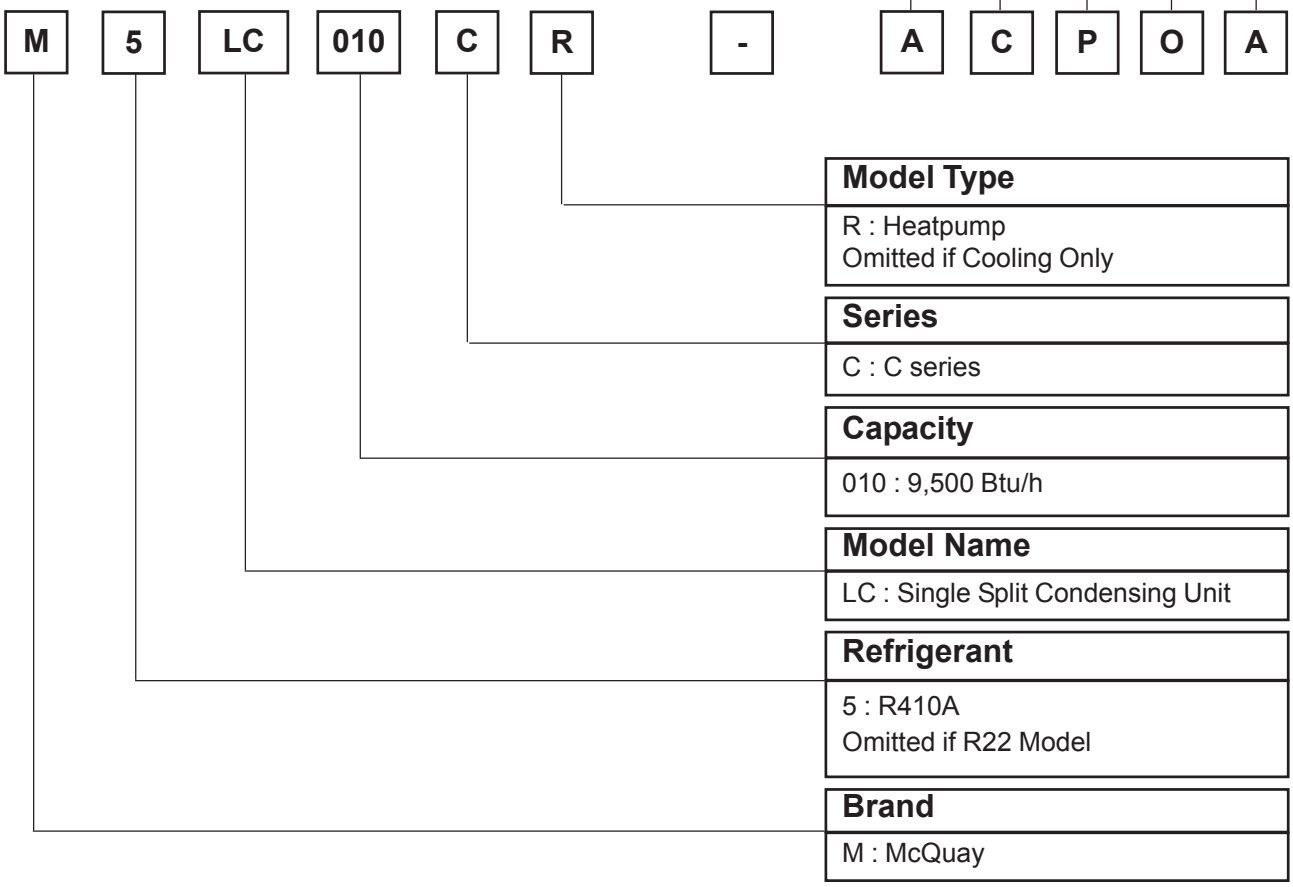
| | |
|---|---|
| P : Matsushita Rotary | T : Toshiba Rotary |
| M : Mitsubishi Rotary | S : Samsung Rotary |

**Market Region**

C : Export with CE marking
E : Export without marking
U : ETL Spec.

**Electrical**

A : 220 - 240V/1Ph/50Hz



## Product Line Up

**INDOOR UNIT**
**MWM-G SERIES PRODUCT LINE UP**

| MWM | | Nomenclature | CLASSIFICATIONS | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Handset | | PCB | | | Air Purification | | | | | Marking | Grille | Orifice Kit |
| | | | G11 | G11 (W/O Turbo mode) | L2.0 | D2.0 | U1.5 | Ionizer Filter | Saranet Filter | Negative Ion | Nano Technology Air Filteration | Non-Thermal Plasma (NTP) | CE | A | |
| Cooling Model | 007G | ACIAC | X | | X | | | | | X | X | | X | X | |
| | 009G | ACIAC | X | | X | | | | | X | X | | X | X | |
| | 010G | ACIAC | X | | X | | | | | X | X | | X | X | |
| | 015G | ACIAC | X | | X | | | | | X | X | | X | X | |
| | 020G | ACIAC | X | | X | | | | | X | X | | X | X | |
| | 025G | ACIAC | X | | X | | | | | X | X | | X | X | |
| | 030F | AFDB | | X | | X | | X | X | | | | X | | X |
| Heatpump Model | 007GR | ACIAC | X | | X | | | | | X | X | | X | X | |
| | 009GR | ACIAC | X | | X | | | | | X | X | | X | X | |
| | 010GR | ACIAC | X | | X | | | | | X | X | | X | X | |
| | 015GR | ACIAC | X | | X | | | | | X | X | | X | X | |
| | 020GR | ACIAC | X | | X | | | | | X | X | | X | X | |
| | 025GR | ACIAC | X | | X | | | | | X | X | | X | X | |
| | 030FR | AFCA | | X | | | X | X | X | | | | X | | |

**INDOOR UNIT**
**M5WM-G SERIES PRODUCT LINE UP**

| | | | CLASSIFICATIONS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M5WM | | Nomenclature | Handset | | PCB | | Air Purification | | | | | Marking | Grille |
| | | | G11 | G11 (W/O Turbo mode) | L2.0 | D2.0 | Ionizer Filter | Saranet Filter | Negative Ion | Nano Technology Air Filteration | Non-Thermal Plasma (NTP) | CE | A |
| Cooling Model | 007G | ACIAC | X | | X | | | | X | X | | X | X |
| | 009G | ACIAC | X | | X | | | | X | X | | X | X |
| | 010G | ACIAC | X | | X | | | | X | X | | X | X |
| | 015G | ACIAC | X | | X | | | | X | X | | X | X |
| | 020G | ACIAC | X | | X | | | | X | X | | X | X |
| | 025G | ACIAC | X | | X | | | | X | X | | X | X |
| | 031F | AFCA | X | | | X | X | X | | | | X | X |
| Heatpump Model | 007GR | ACIAC | X | | X | | | | X | X | | X | X |
| | 009GR | ACIAC | X | | X | | | | X | X | | X | X |
| | 010GR | ACIAC | X | | X | | | | X | X | | X | X |
| | 015GR | ACIAC | X | | X | | | | X | X | | X | X |
| | 020GR | ACIAC | X | | X | | | | X | X | | X | X |
| | 025GR | ACIAC | X | | X | | | | X | X | | X | X |
| | 030FR | AFCA | X | | | X | X | X | | | | X | X |

**OUTDOOR UNIT**
**MLC PRODUCT LINE UP**

| MLC | | Nomenclature | CLASSIFICATIONS | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Refrigerant Ctrl + Fin | | | | Safety Devices | | Compressor | Marking | | | Market | | |
| | | | Cap. Tube | 7mm Coil | 3/8" Coil | Gold Fin | W/O Contactor | Contactor | Rotary Comp. | W/O Marking | CE Marking | ETL | Thai | HK | Singapore |
| Cooling Model | 007C | ACPOE | X | X | | | X | | X | X | | | | | |
| | | ACPIE | X | X | | X | X | | X | X | | | | | |
| | 009C | ACPOD | X | X | | | | | X | | X | | | | |
| | | ACPID | X | X | | X | | | X | | X | | | | |
| | 010C | ACPOB | X | X | | | | | X | | X | | | | |
| | | ACPIB | X | X | | X | | | X | | X | | | | |
| | 015C | ACPOD | X | X | | | | | X | | X | | | | |
| | | ACPID | X | X | | X | | | X | | X | | | | |
| | | ATPOD | X | X | | | | X | X | | X | | X | | |
| | 018C | ACPOD | X | X | | | | | X | | X | | | | |
| | | ACPID | X | X | | X | | | X | | X | | | | |
| | | ACPBD | X | X | | | | X | X | | X | | | X | X |
| | 020C | ACPOD | X | X | | | | | X | | X | | | | |
| | | ACPID | X | X | | X | | | X | | X | | | | |
| | | ACPBD | X | X | | | | X | X | | X | | | X | X |
| | | ATPOD | X | X | | | | | X | | X | | X | | |
| | 025C | ACPBD | X | X | | | | X | X | | X | | | | |
| | | ACPOD | X | X | | | | | X | | X | | | | |
| | | ACPID | X | X | | X | | | X | | X | | | | |
| Heatpump Model | 018CR | ACPOD | X | X | | | | | X | | X | | | | |
| | | ACPID | X | X | | X | | | X | | X | | | | |
| | | ACPBD | X | X | | | | X | X | | X | | | X | X |
| | 020CR | ACPOD | X | X | | | | | X | | X | | | | |
| | | ACPID | X | X | | X | | | X | | X | | | | |
| | | ACPBD | X | X | | | | X | X | | X | | | X | X |
| | 025CR | ACPBD | X | X | | | | X | X | | X | | | | |
| | | ACPOD | X | X | | | | | X | | X | | | | |
| | | ACPID | X | X | | X | | | X | | X | | | | |

**OUTDOOR UNIT**
**M5LC PRODUCT LINE UP**

| M5LC | | Nomenclature | CLASSIFICATIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Refrigerant Ctrl + Fin | | Safety Devices | | | Compressor | Marking | Others |
| | | | Cap. Tube | Gold Fin | Contactor | HP | LP | Mat. Rotary | CE Marking | Drain Elbow |
| Cooling Model | 007C | ACPOE | X | | | | | X | X | |
| | 010C | ACPOB | X | | | | | X | X | |
| | 015C | ACPOC | X | | | | | X | X | |
| | 020C | ACPOC | X | | | | | X | X | |
| | 025C | ACPOC | X | | | | | X | X | |
| | 028C | ACPOA | X | | | | | X | X | |
| Heatpump Model | 007CR | ACPOE | X | | | | | X | X | X |
| | 010CR | ACPOB | X | | | | | X | X | X |
| | 015CR | ACPOC | X | | | | | X | X | X |
| | 020CR | ACPOC | X | | | | | X | X | X |
| | 025CR | ACPOC | X | | | | | X | X | X |
| | 028CR | ACPOA | X | | | | | X | X | X |

# Features

- **EASY INSTALLATION**
  - The wall mounted fan coil unit is easily installed because of its compact size, slimness and light weight.
  - Slim and short outdoor unit can be easily installed even in a narrow balcony and passageway and yet have a stable profile.

- **SPACE SAVING**
  - No space is required on either floor or ceiling. This newly developed super slim design for wall mounting maximizes floor space usage and enhances ceiling appearance where ceilings are low.

- **QUIET OPERATION**
  - Cooling comfort is improved by whisper-quiet operation which is achieved by a tangential fan.

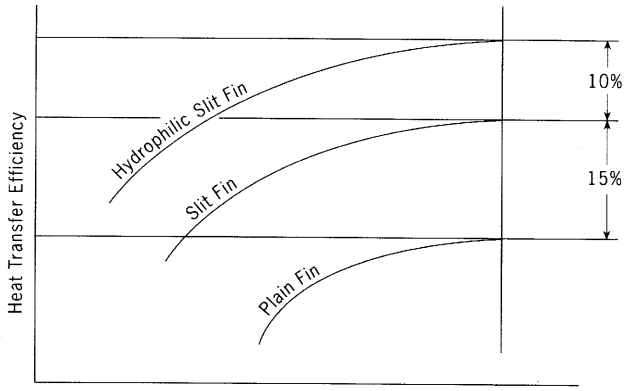
- **EXCELLENT AIR DISTRIBUTION**
  - Air discharge direction can be adjusted in four directions, manually or automatically by using LCD remote control.
  - The new double louver design with automatic air swing function fully optimizes the room comfort by distributing the air evenly to the room.
  - The unique skew fan design with larger diameter creates better air flow to the operating environment.

- **FACILITATED MAINTENANCE ENSURED**
  - The new design of air discharge housing whereby the fan blower can be easily accessed by just loosing two screws on the unit to provides a flexible, faster and easier way to clean up the fan blower and ionizer.
  - Maintenance is easy for electrical components, piping and wiring as these are all easily accessible by merely removing front plastic panel.

- **WIRELESS REMOTE CONTROL**
  - The compact LCD transmitter is able to operate the air conditioner unit within the distance of 9 meters.
  - Fan motor speed can be set at low/medium/high or automatic.
  - Sleep mode auto control will gradually increase or decrease the setting temperature to provide a comfortable surrounding for sleeping.
  - Air flow direction can be controlled automatically.
  - Room temperature is controlled by electronic thermostat.
  - The real time timer allows the air conditioner to be switched On and Off automatically based on user settings.
  - Turbo mode function is available to enables the required set temperature to be achieved in a short time.
  - Ionizer or non-thermal plasma is available to create better air quality.
  - Personalized Setting allows user to preset and store 2 groups of personal settings (including timer setting) in the handset.
  - Auto random restart is a function whereby when there is power failure occurred during operation, the unit will automatically restart as the last setting condition once the power is resumed.

- **MOISTURE REMOVAL**
  - Dry mode with super low indoor fan speed can achieve more affective moisture removal.
  - If the room temperature is lower than the set temperature (Cooling mode only), the compressor will cut out and force on after 9 minutes to remove moisture effectively.

- **HIGH EFFICIENCY HEAT EXCHANGER**
  - The compact design of the 3-fold structure heat exchanger provides a large surface are for better and efficient heat exchange.
  - The unique Hydrophilic slit fin has greatly improved the air flow and the contact surfaces with the air thus to boost the cooling capacity.



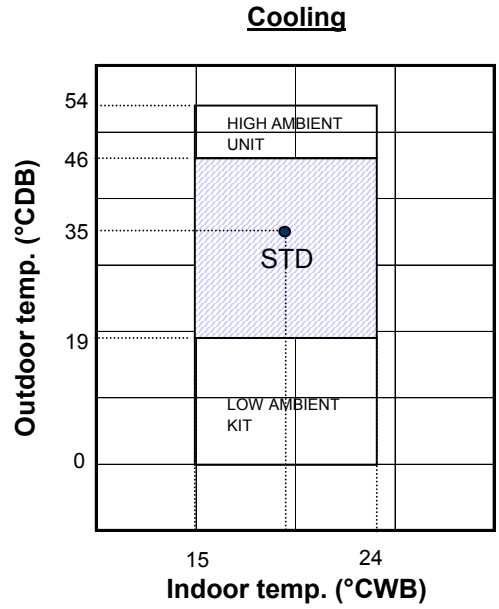

- **ROTARY COMPRESSOR**
  - The ever popular rotary compressor is more energy efficient and has a higher output to weight ratio.
- **SELF DIAGNOSIS**
  - This function is able to detect and to diagnose any faults occurring in the system by blinking of the LED lights.
  - Simplify and ease for troubleshooting.

# Application Information

## Operating Range

Ensure the operating temperature is in allowable range.

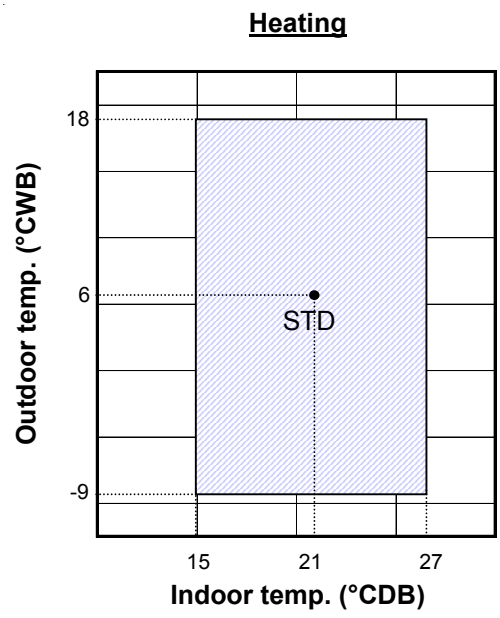
### Cooling only

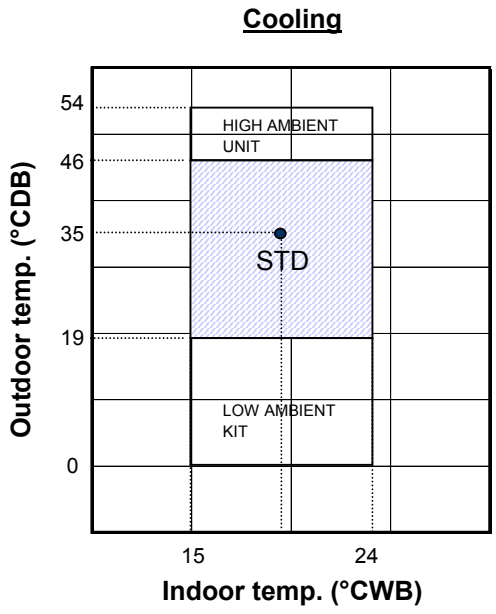



**Caution :**

The use of your air conditioner outside the range of working temperature and humidity can result in serious failure.

### Heatpump



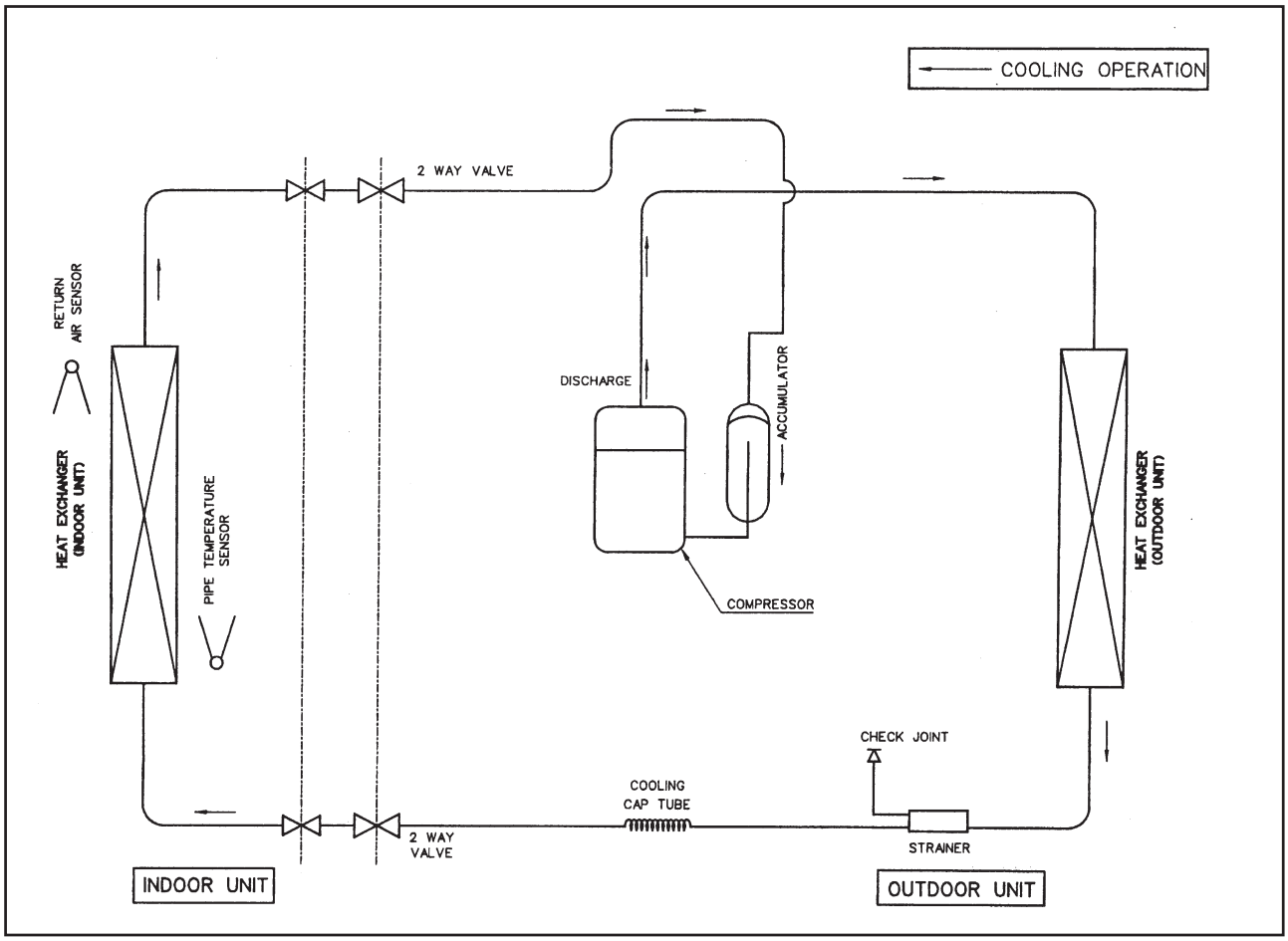



## Refrigerant Circuit Diagram

## Cooling Only Models

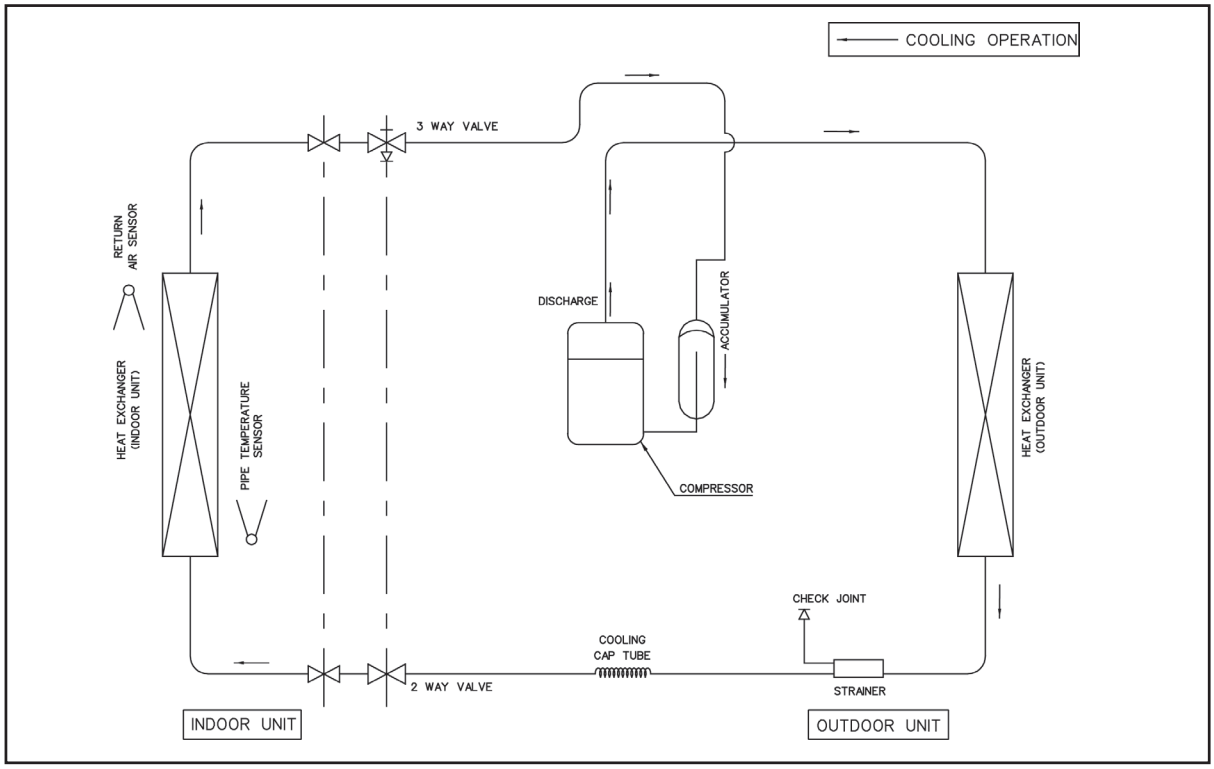
**MODEL : MWM 007G - MLC 007C**
**MWM 009G - MLC 009C**
**MWM 010G - MLC 010C**
**MWM 015G - MLC 015C**

**M5WM 007G - M5LC 007C**
**M5WM009G - M5LC 010C**
**M5WM 010G - M5LC 010C**
**M5WM 015G - M5LC 015C**

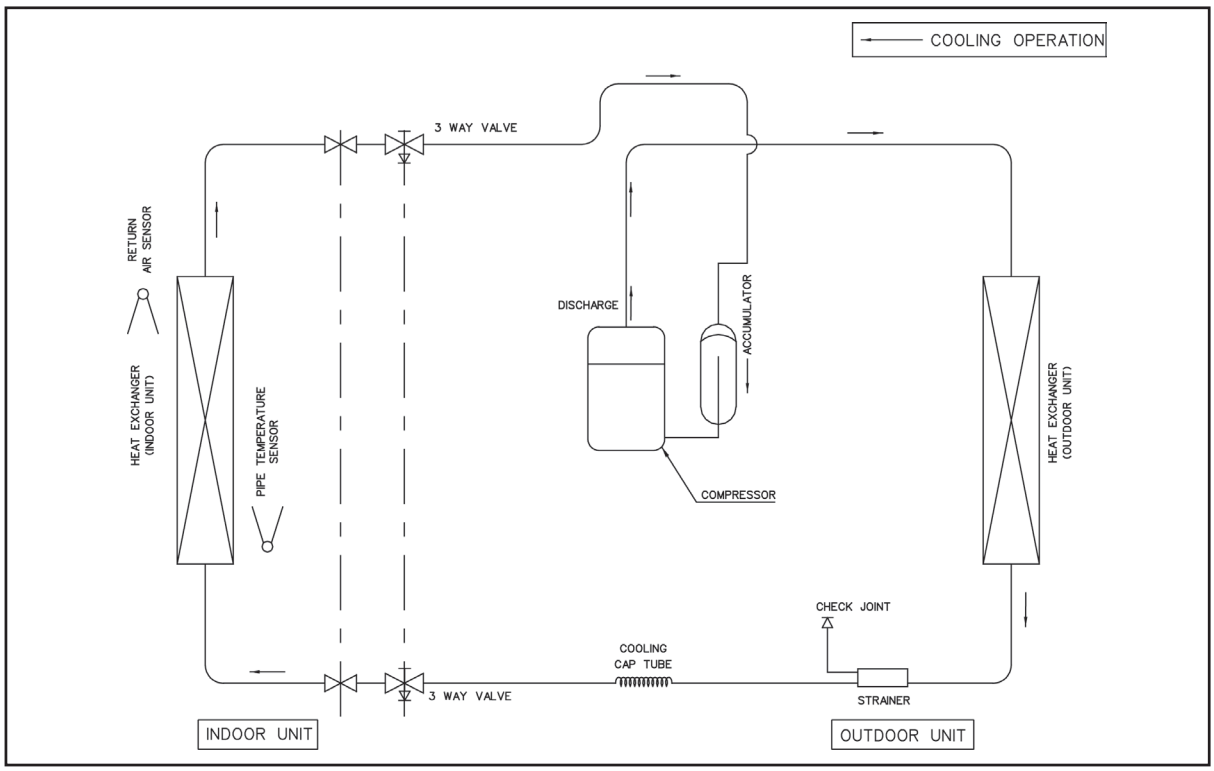


## Cooling Only Models

**MODEL : MWM 020G - MLC 018C** **M5WM 020G - M5LC 020C**
**MWM 020G - MLC 020C** **M5WM 025G - M5LC 025C**

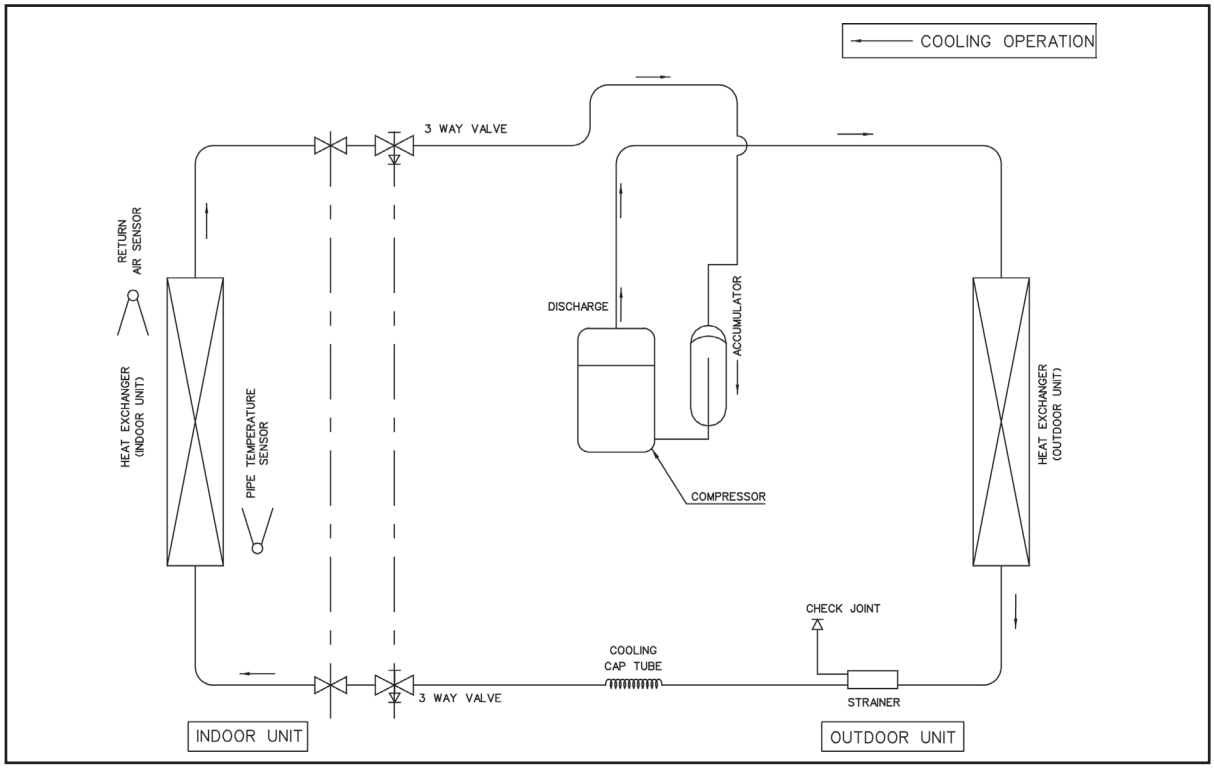



**MODEL : MWM 025G - MLC 025C** **M5WM 031F - M5LC 028C**



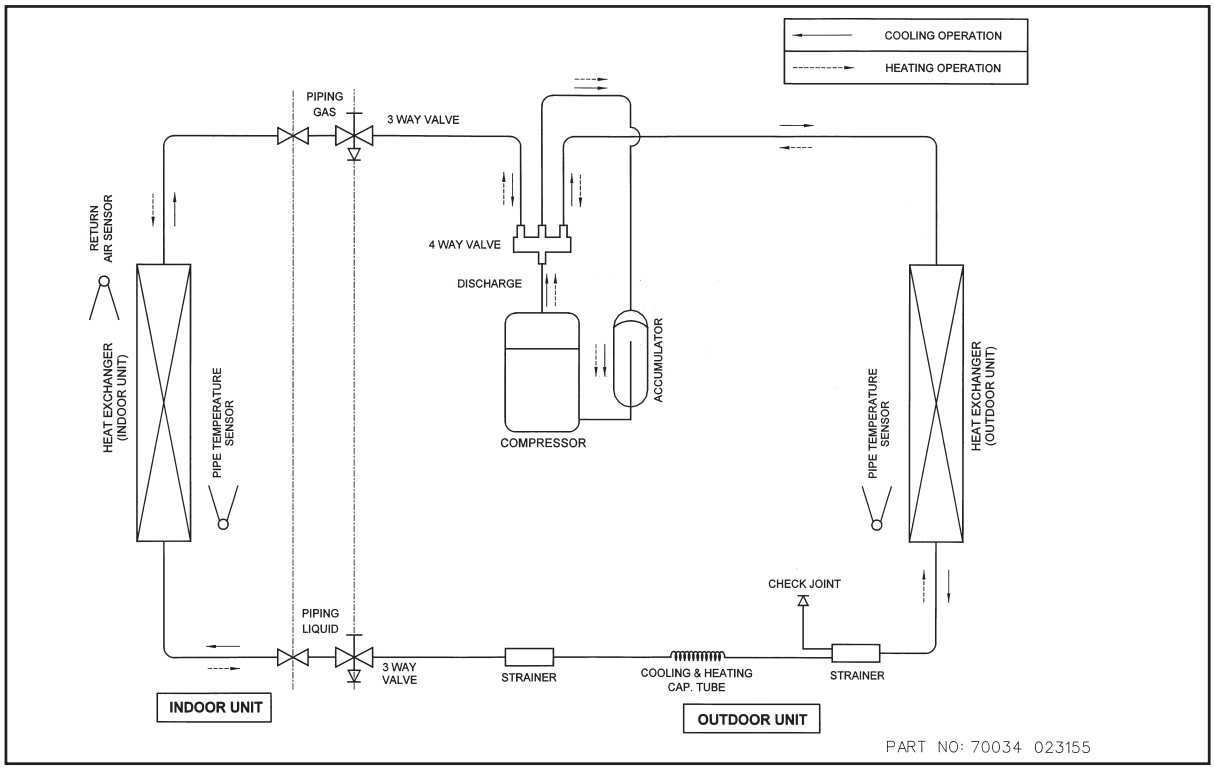
## Cooling Only Models

## MODEL : MWM 030F - MLC 028C

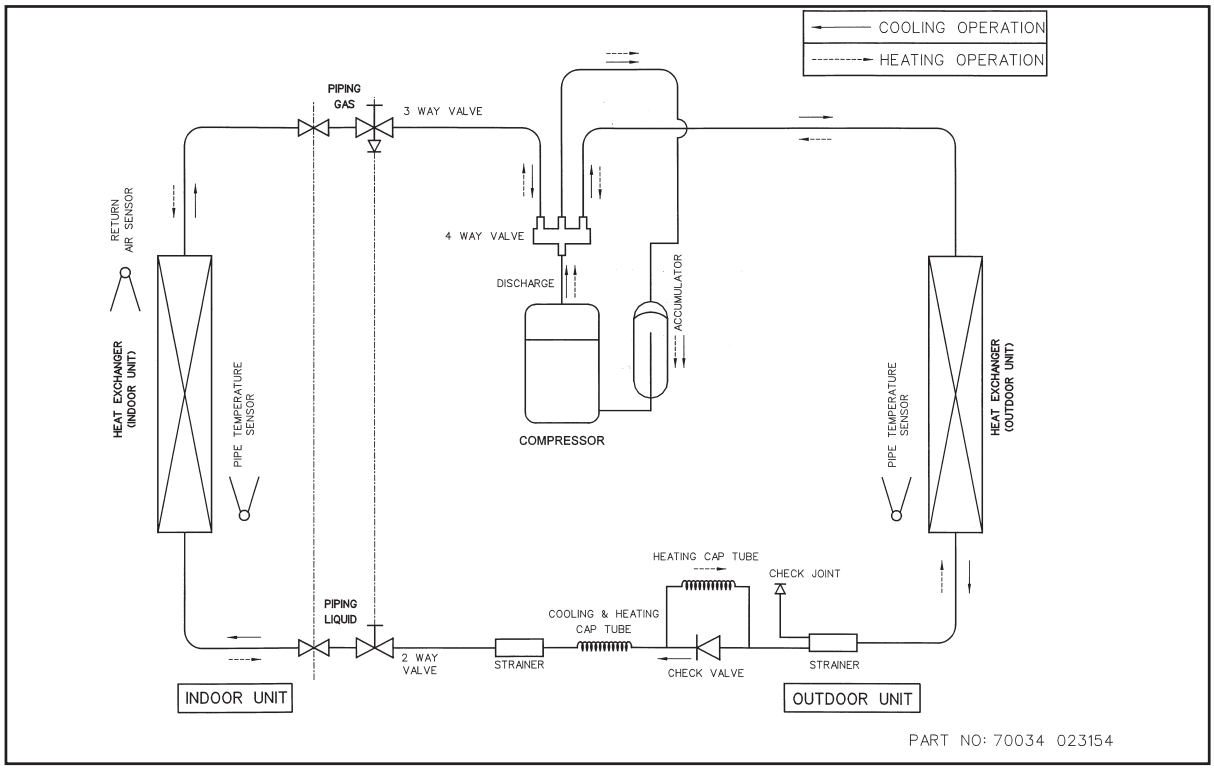


## Heatpump Models

### MODEL : MWM 009GR - MLC 009CR  M5WM 007GR - M5LC 007CR

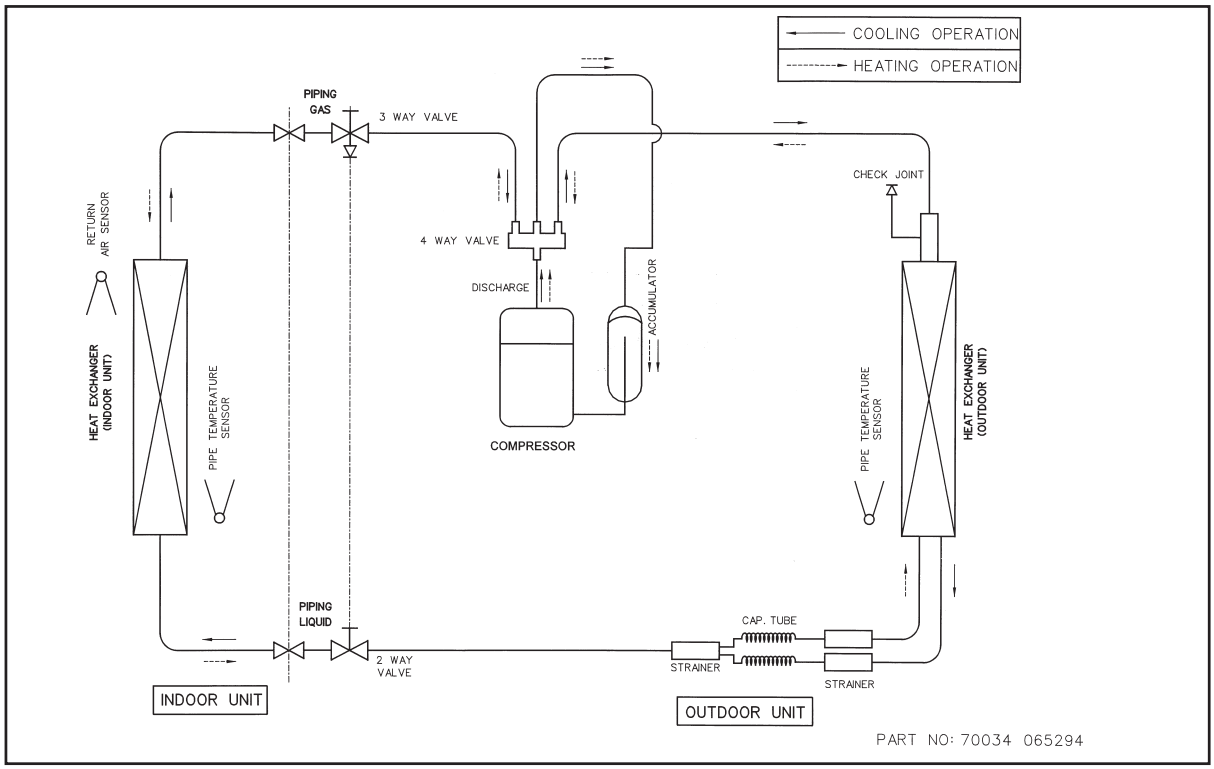



### MODEL : MWM 010GR - MLC 010CR
### M5WM 009GR - M5LC 010CR  M5WM 010GR - M5LC 010CR



## Heatpump Models

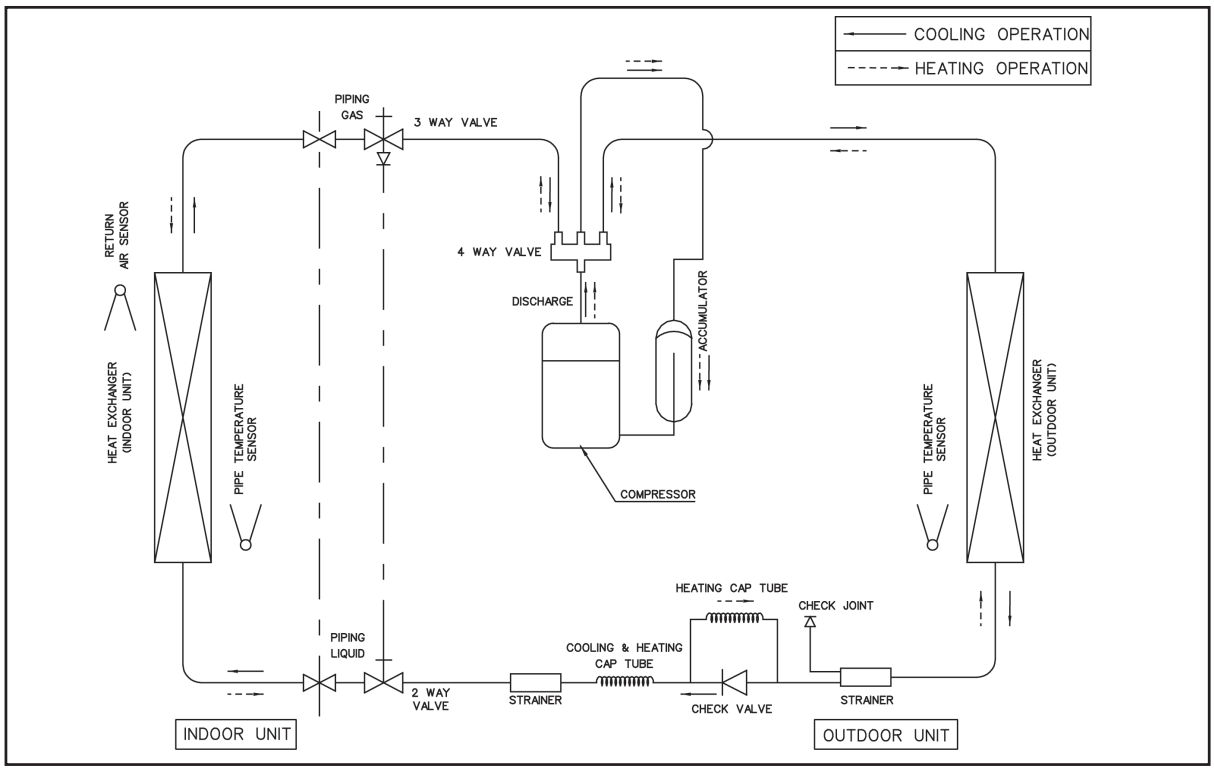
## MODEL : MWM 015GR - MLC 015CR  M5WM 015GR - M5LC 015CR



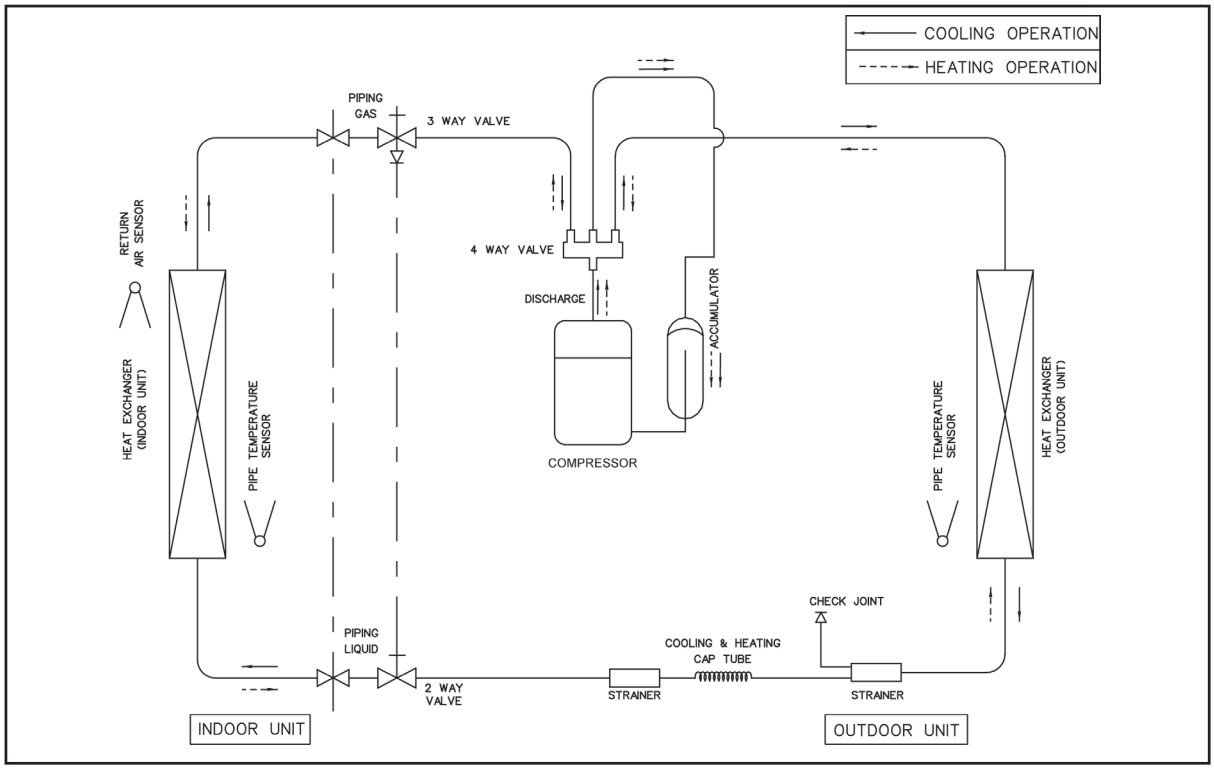
## Heatpump Models

## MODEL : MWM 020GR - MLC 020CR

## M5WM 020GR - M5LC 020CR
## M5WM 025GR - M5LC 025CR

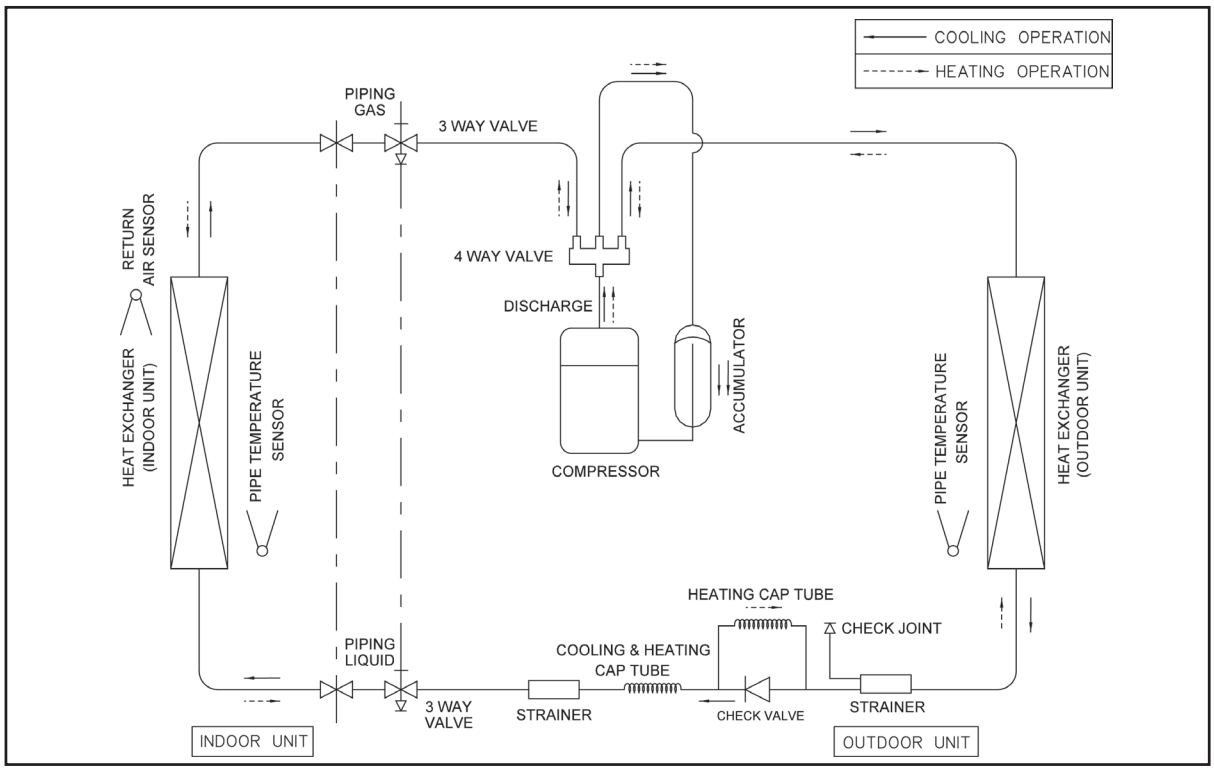



## MODEL : MWM 025GR - MLC 025CR



## Heatpump Models

## MODEL : MWM 030FR - MLC 028CR M5WM 030FR - M5LC 028CR



## Controllers

### G11 REMOTE CONTROLLER

**Temperature Setting**

- To set the desired room temperature, press the button to increase or decrease the set temperature.
- The temperature setting range is from 16°C to 30°C
- Press both buttons simultaneously to toggle the temperature setting between °C and °F

**Turbo Mode**

- Press the TURBO button to achieve the required set temperature in a short time.

**Sleep Mode**

- Press the button to activate sleep mode. This function is available under COOL, HEAT & AUTO mode.
- When it is activated in COOL mode, the set temperature will be increased 0.5°C after 30mins, 1°C after 1 hour and 2°C after 2 hours.
- When it is activated in HEAT mode, the set temperature will be decreased 1°C after 30mins, 2°C after 1 hour and 3°C after 2 hours.

**ON Timer Setting**

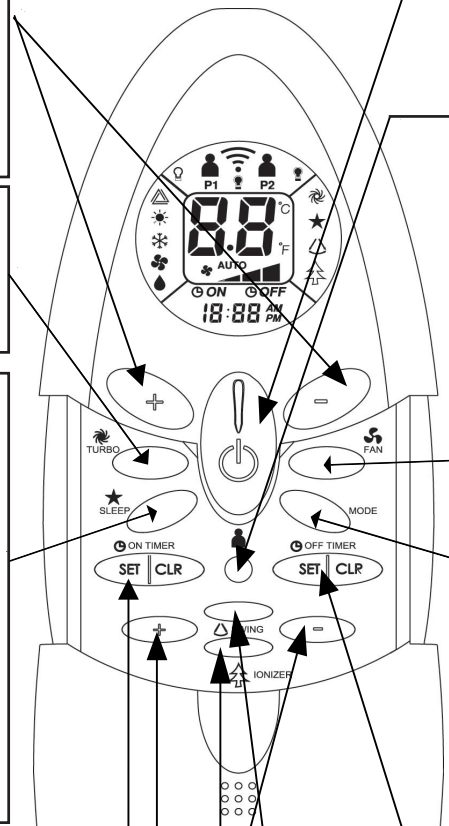
- Press the SET button will activate the on timer function.
- Set the desired on time by pressing the SET button continuously.
- Press the CLR button to cancel the off timer setting

**Clock Time Setting**

- Press button + or - to increase or decrease the clock time.

**Ionizer**

- Press the button to activate the negative Ion function, which will refresh the indoor air effectively.




**On/Off Button**

- Press Once to start the air conditioner
- Press again to stop the unit

**Personalised Setting**

- Press and hold the button for 3s to initiate personalized setting.
- Set the individual setting e.g. MODE, SET TEMP or FAN SPEED and leave for 4s to save
- 2 groups of settings are allowed to stored in the handset

**Fan Speed Selection**

- Press the button until the desired fan speed is achieved.

**Operating Mode**

- Press the MODE button to select the type of operating mode.
- For Cooling only unit, the available modes are: COOL, DRY & FAN.
- For Heatpump unit, the available modes are: AUTO, COOL, DRY, FAN & HEAT.

**OFF Timer Setting**

- Press the SET button will activate the off timer function.
- Set the desired off time by pressing the SET button continuously.
- Press the CLR button to cancel the off timer setting

**Automatic Air Awing**

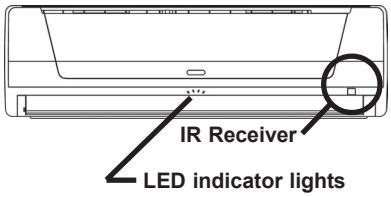
- Press the SWING button to activate the automatic air swing function.
- To distribute the air to a specific direction, press the SWING button and wait until the louver move to the desired direction and press the button once again.

## Indicator Lights

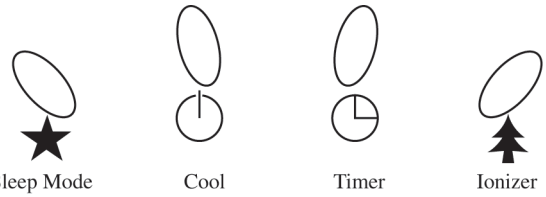
**MWM / M5WM - G SERIES**
**IR signal receiver**
When there is infrared remote control operating signal, the signal receiver on indoor unit will made a (beep) for signal acceptance confirmation.

**Cooling unit / Heatpump unit**
The table below shows the LED indicator light for air conditioner unit under normal operation and fault condition. The LED indicator lights are located at the middle of the air conditioner unit.

The heat pump units is equipped with an “auto” mode, whereby the unit will provide reasonable room temperature by switching the unit automatically to either “cool” mode or “heat” mode, according to the temperature setting set by the user.




**LED Indicator Lights for Cooling Unit / Heatpump Unit**

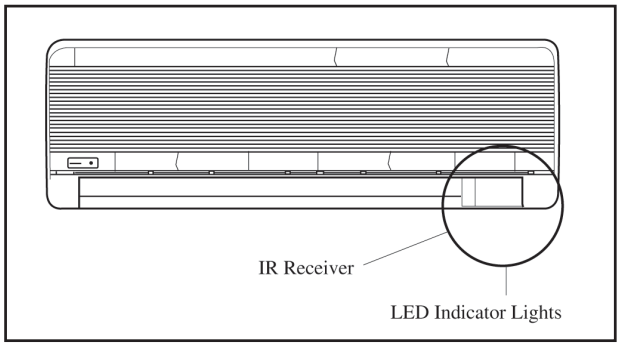



## LED Indicator Lights : Normal Operation And Faulty Indication Table

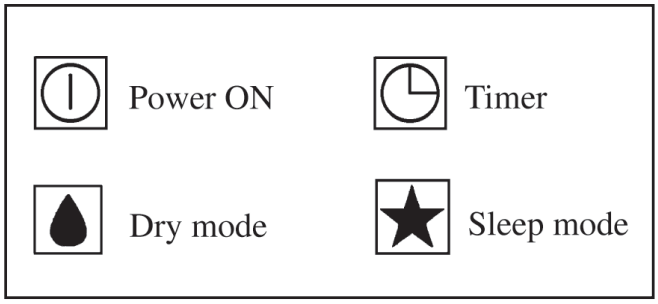
| ★ | ⏻ COOL/HEAT (GREEN/RED) | ◷ | ⏫ | Normal Operation / Fault Indication | Action |
|---|---|---|---|---|---|
| ○/● | ○ Green | | ○/● | Cool mode | - |
| ○/● | ○ Red | | ○/● | Heat mode | - |
| ○/● | ○ Red | | ○/● | Auto mode in Heating operation | - |
| ○/● | ○ Green | | ○/● | Auto mode in Cooling operation | - |
| | ○ | ○ | | Timer on | - |
| ○ | ○ | | | Sleep mode on | - |
| | ○ | | ○ | Ionizer on | - |
| | ○ | | ○/● | Fan mode on | - |
| | ○ | | ○/● | Dry mode on | |
| | ◑ 1 time | | | Room air sensor contact Loose / Short | Call your dealer |
| | ◑ 3 times | | | Outdoor coil sensor open | Call your dealer |
| ◑ | ◑ | | | Indoor coil sensor open | Call your dealer |
| | | ◑ 1 time | | Compressor overload / Indoor coil sensor short / Outdoor coil sensor short | Call your dealer |
| | ◑ Red | | | Defrost operation | - |
| | | ◑ 3 times | | Gas leak | Call your dealer |
| | | ◑ 5 times | | Outdoor coil sensor exist (MS mode) | Call your dealer |
| | | ◑ 6 times | | Hardware error (tact switch pin short) | Call your dealer |

○ - ON ○/● - ON or OFF ◑ - Blinking

## MWM 030F / 030FR , M5WM 031F / 030FR




### LED Indicator Lights For Cooling Unit

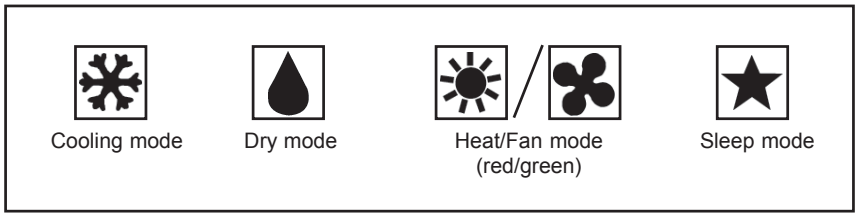



### LED Indicator Lights : Normal Operation And Fault Conditions For Cooling Unit

| Power | Dry | Timer | Sleep | Operation / Fault Indication | Action |
|---|---|---|---|---|---|
| O | | O | | Timer on | - |
| O | | | O | Sleep mode on | - |
| O | O | | | Dry mode on | - |
| ◑ Continuously | O/● | | | Frost prevention | Clean the filter and switch to high fan |
| ◑ once every 2 sec. | | | | Room air sensor contact loose / short | Call your dealer |
| ◑ ◑ twice every 2 sec. | | | | Indoor coil sensor contact loose / short | Call your dealer |
| ◑ ◑ ◑ 3 times every 2 sec. | | | | Sensor contact problem, compressor overload protection trip or gas leak | Call your dealer |

O - ON  O/● - ON or OFF  ◑ - Blinking

## LED Indicator Lights For Heatpump Unit




## LED Indicator Lights : Normal Operation And Fault Conditions For Cooling Unit

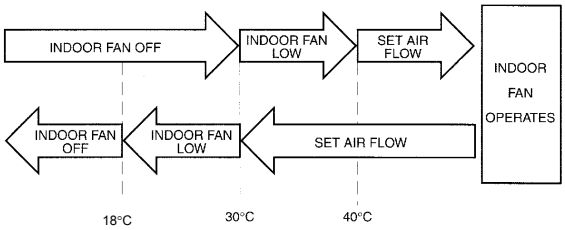
| Cool | Dry | Fan | Heat | Sleep | Normal Operation / Fault Indication | Action |
|---|---|---|---|---|---|---|
| O | | | | O/● | Cooling mode | - |
| | O | | | | Dry mode | - |
| | | O | | | Fan mode | - |
| | | | O | O/● | Heat mode | - |
| ◑ | | | O | O/● | Auto mode in heating operation | - |
| O | | | ◑ | O/● | Auto mode in cooling operation | - |
| | | | ◑ | | Defrost operation | - |
| ◑ | | | | | Compressor overload protection | Call your dealer |
| | | | | ◑ | Indoor coil sensor contact loose/short | Call your dealer |
| | ◑ | | | | Outdoor coil sensor contact loose/short | Call your dealer |
| | | ◑ | | | Room air sensor contact loose/short | Call your dealer |
| ◑ | ◑ | | | | If the system is in cool mode or heat mode (with the sleep function off), the sensor may have a contact problem, compressor overload protection trip or gas leak. | |

O - ON  O/● - ON or OFF  ◑ - Blinking

## Controller Specifications

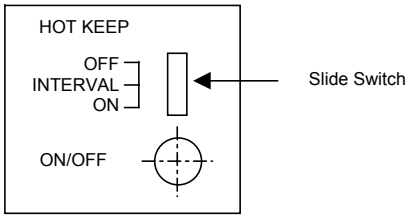
### (A) 3 HOT SYSTEM (HEATING CYCLE)

a) *Hot start*
At the beginning of heating operation (cold start, after defrosting or thermostat resumes operation) the indoor fan operation is controlled in accordance with the temperature of the indoor heat exchanger to send warm air from the start.

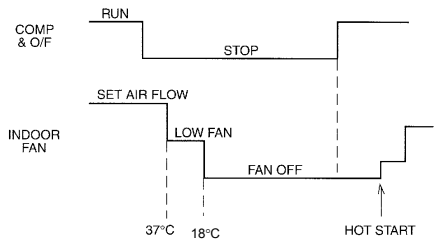



b) *Hot keep (Apply to MWM030FR)*
After thermostat cut out, the indoor fan operation is controlled in accordance with the indoor heat exchanger temperature to utilize the extra heat and preserve indoor comfort.

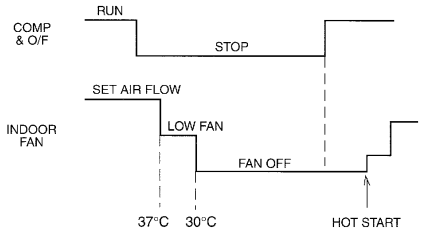
The indoor fan can be switched to ON, OFF, INTERVAL by setting the slide switch shown in the diagram. This slide switch is located at the front frame cover.



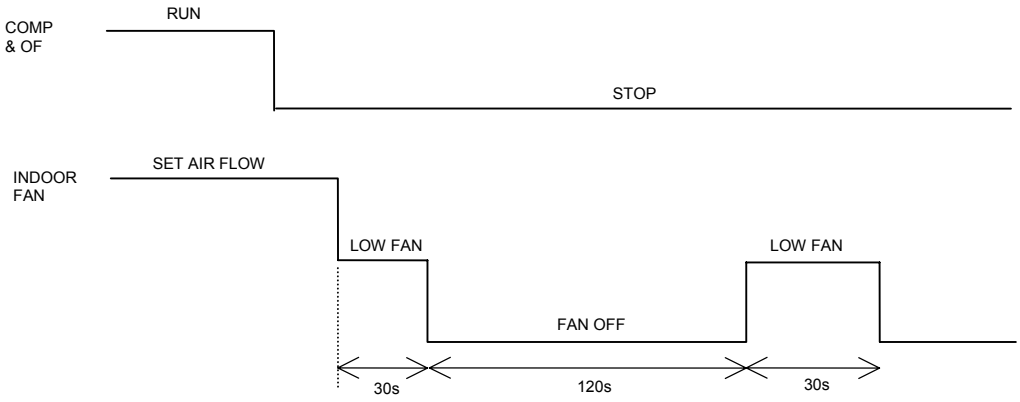

Note 1 : Fan ON (default)




Note 2: Fan OFF



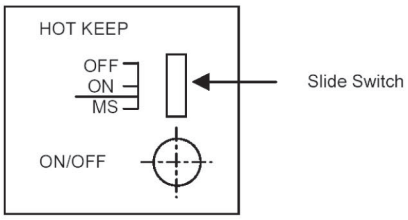

Note 3 : Interval



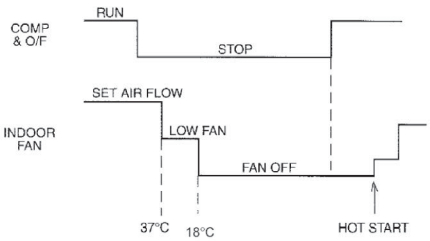
*Hot Keep (Apply to MWM-GR)*
After thermostat cut out, the indoor fan operation is controlled in accordance with the indoor heat exchanger temperature to utilize the extra heat and preserve indoor comfort.

The indoor fan can be switched to ON, OFF by setting the slide switch shown in the diagram. This slide switch is located at the front frame cover.

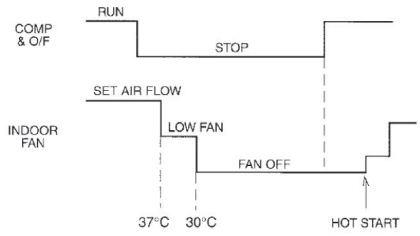
*Multisplit Model Selection*
The indoor unit can be changed to multisplit model by just selecting MS through the slide switch.



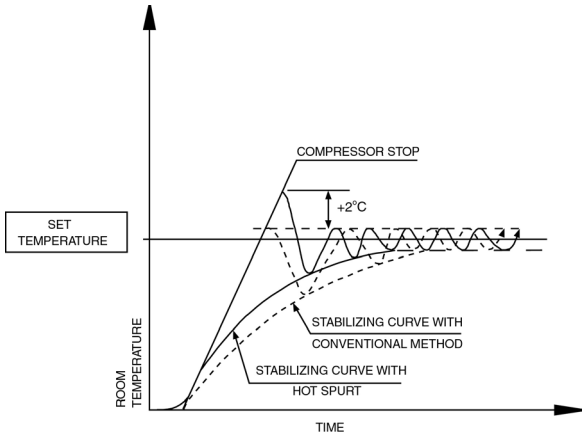

Note 1 : Fan ON (default)




Note 2: Fan OFF

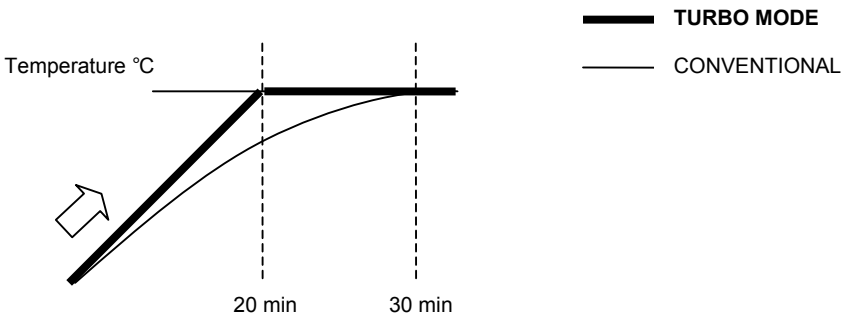



c) *Hot spurt*
During cold start, the set temperature of controller is increased by 2°C to stabilize the room temperature quickly.



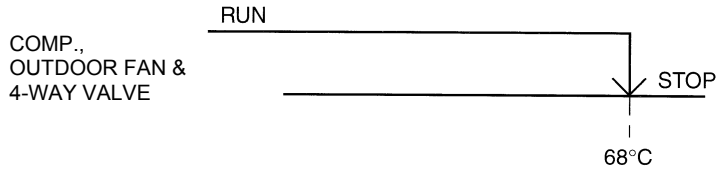
**(B) *TURBO* MODE (APPLY TO MWM-GR)**

TURBO function is available in COOL, HEAT and DRY modes only. When TURBO function is set, working temperature for cooling cycle is decreased by 2°C, working temperature for heating cycle is increased by 2°C. The indoor fan will force to HIGH fan. After 20 minutes, this function will clear automatically, no more offset temperature for set temperature and indoor fan will restore. Cold start will be overridden when TURBO function is activated. If TURBO and SLEEP are activated at the same time, the SLEEP mode timer will be reset, it will resume after TURBO function is cleared.




**(C) OVERLOAD PREVENTION IN HEATING OPERATION**

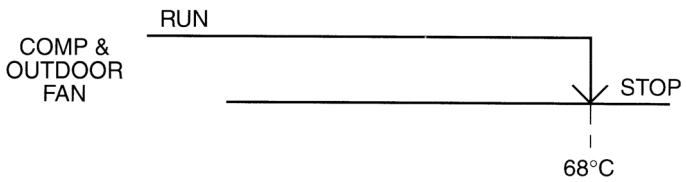
During heating operation, if the room temperature and outdoor temperature are high, or when the indoor air filter is choked, the condensing pressure will increase rapidly. To prevent the burn out of compressor, the M. C. controller will stop the operation of the air conditioner under this condition.




- For manual reset type, the ON / OFF button must be pressed to reset the system.

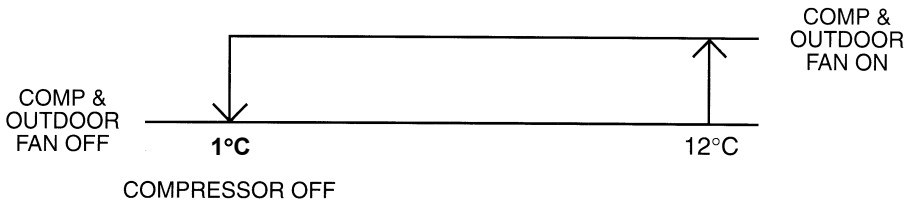
**(D) OVERLOAD PROTECTION IN COOLING OPERATION**

When outdoor and indoor air temperature raise beyond the operation limit, or when the outdoor coil choked with dirt, the M.C. controller detects abnormal increase in condensing temperature. It will stop the operation to prevent compressor burn out.



**(E) FROST PREVENTION AND FILTER CHECK**

In order to prevent the freezing of indoor coil, the controller will operate as follow.

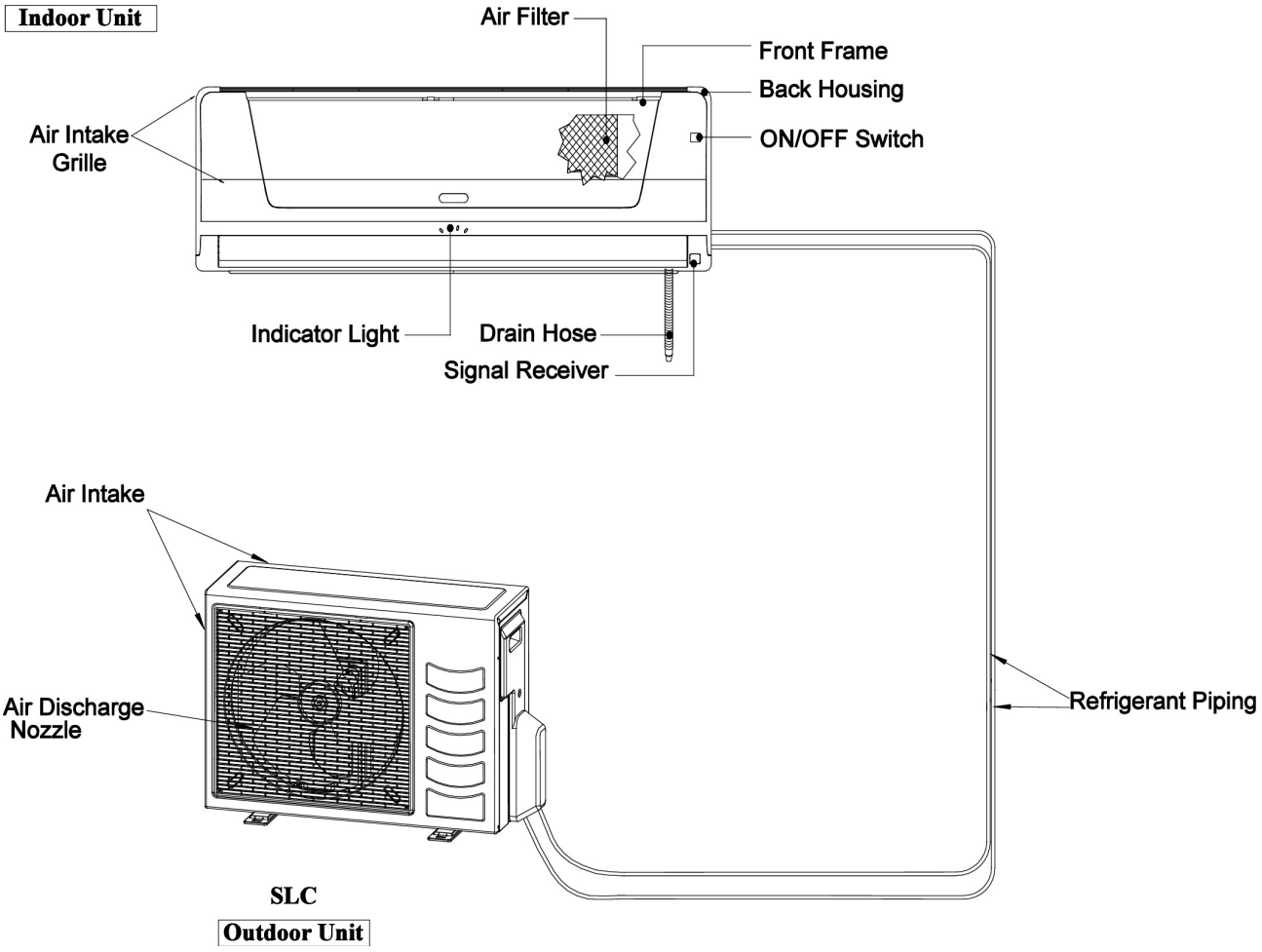



**(F) AUTO RANDOM RESTART**

When power resumed, the unit will automatically restart and operate at the previous setting as before power failure occurred.

# Installation

## Installation Diagram



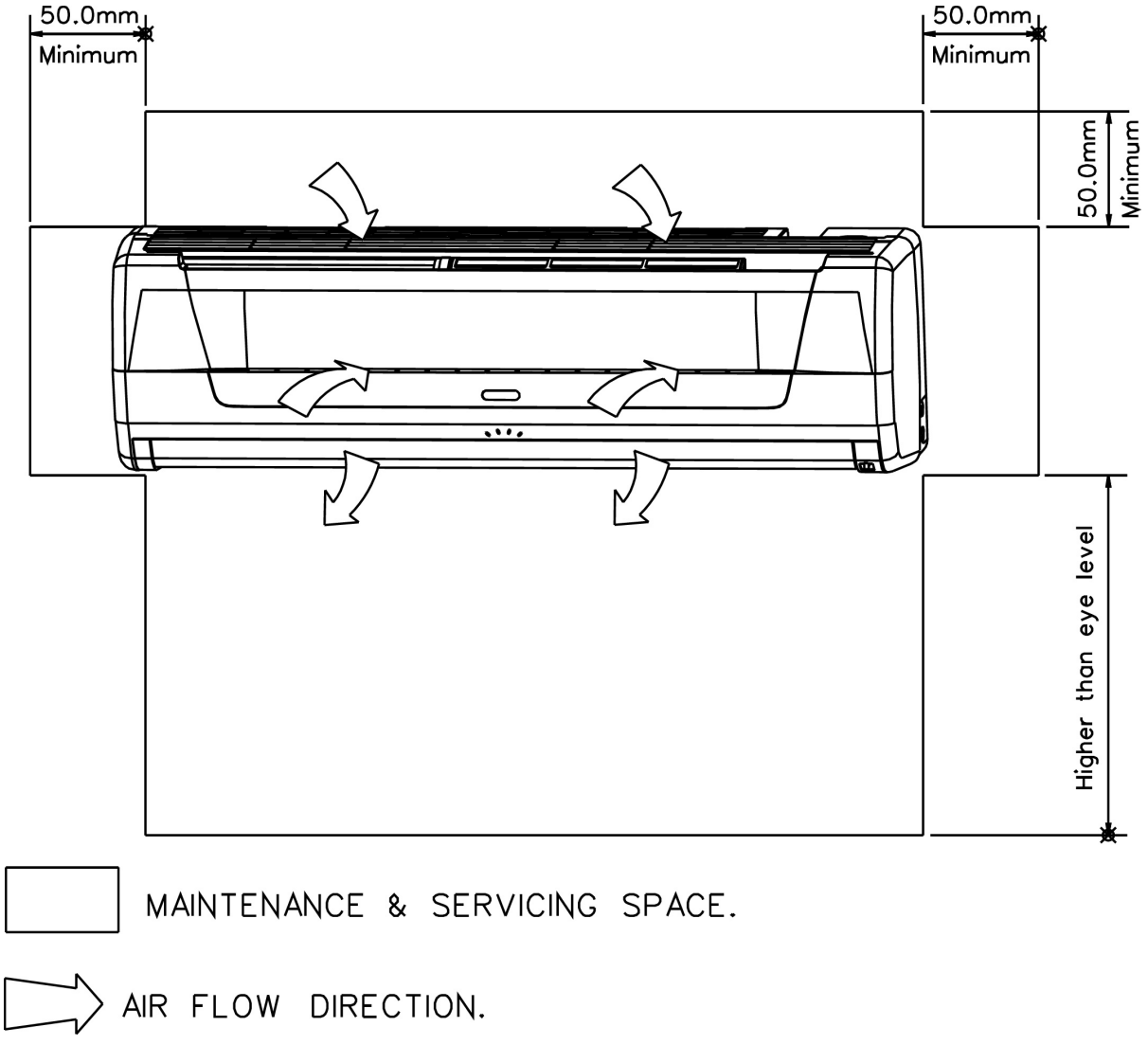
**CAUTION:** Before installing the unit, ensure that the power supply matches the power requirement of the air conditioner.

**1) SELECTION OF LOCATION AND SPACE**

**(A) INDOOR UNIT**

Install the fan coil (indoor) unit at a location with the following requirements

- Location is suitable for wiring, piping and drainage.
- No obstruction of air flow into and out of unit where cooler air can be evenly distributed.(See fig. 1)
- Ensure that air discharge is not short circuited with air intake.
- Ensure that wall is sufficiently strong, rigid, flat, perpendicular and vibration free.
- Where air filter cassette can be slided in or out easily.
- Where there is no danger of flammable gases.
- Where there is no direct sunlight on unit.
- Also to take into consideration a place for the installation of the Wireless LCD Remote Controller.



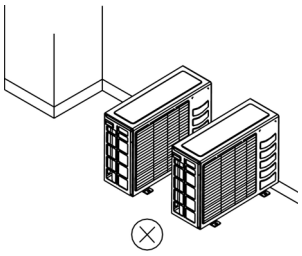

**CAUTION :** Do not install unit near the door way because excessive fresh air may cause panel condensation on the unit.

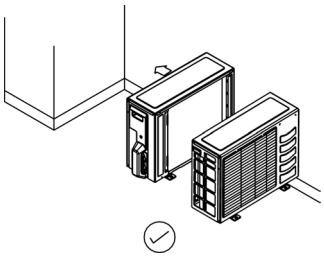
Fig. 1

## (B) OUTDOOR UNIT

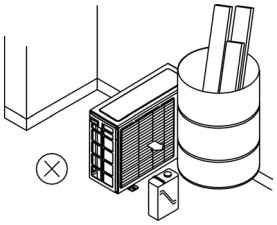
As condensing temperature rises, evaporating temperature rises and cooling capacity drops. In order to achieve maximum cooling capacity, the location selected for outdoor unit should fulfill the following requirements :

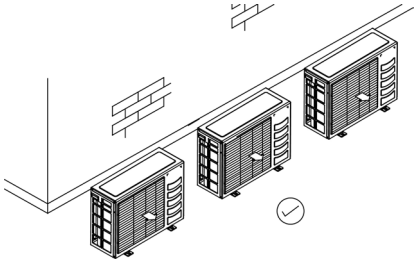
- Install the condensing (outdoor) unit in a way such that hot air distributed by the outdoor condensing unit cannot be drawn in again (as in the case of short circuit of hot discharge air). Allow sufficient space for maintenance around the unit.



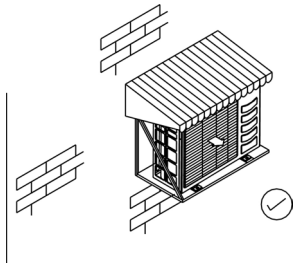


- Ensure that there is no obstruction of air flow into or out of the unit. Remove obstacles which block air intake or discharge.





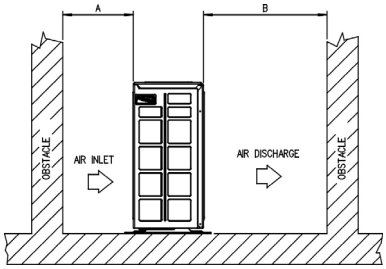
- The location must be well ventilated, so that the unit can draw in and distribute plenty of air thus lowering the condensing temperature.
- A place capable of bearing the weight of the outdoor unit and isolating noise and vibration.
- A place protected from direct sunlight. Otherwise use an awning for protection, if necessary.

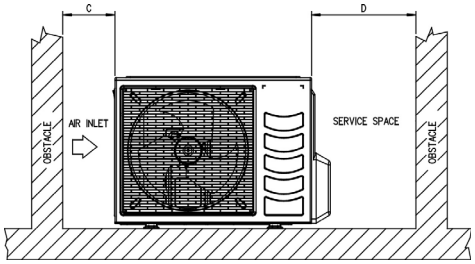


- The location must not be susceptible to dust or oil mist.

## INSTALLATION CLEARANCE

- Outdoor units must be installed such that there is no short circuit of the hot discharge air or obstruction to smooth air flow. Select the coolest possible place where intake air should not be hotter than the outside temperature (max. 45°C)



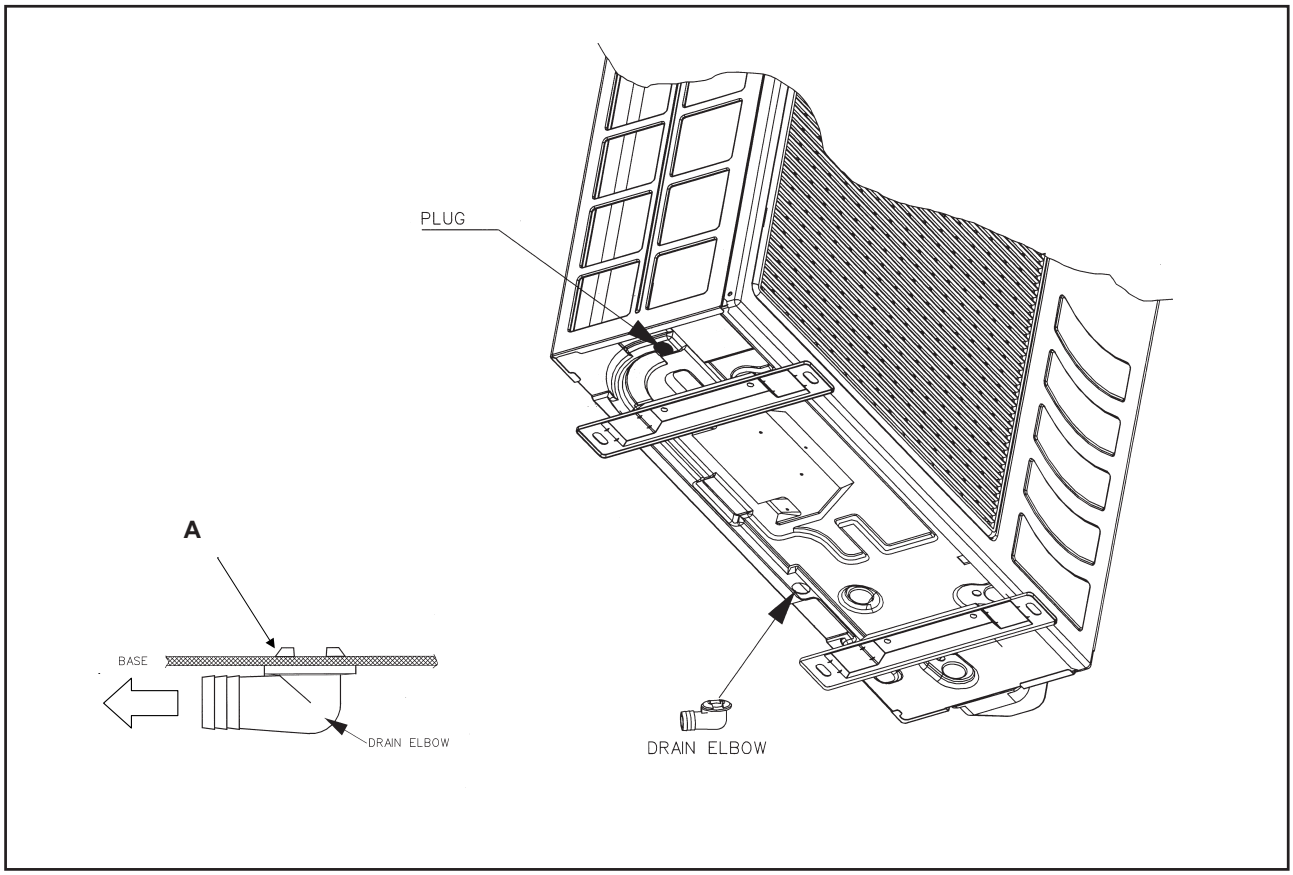



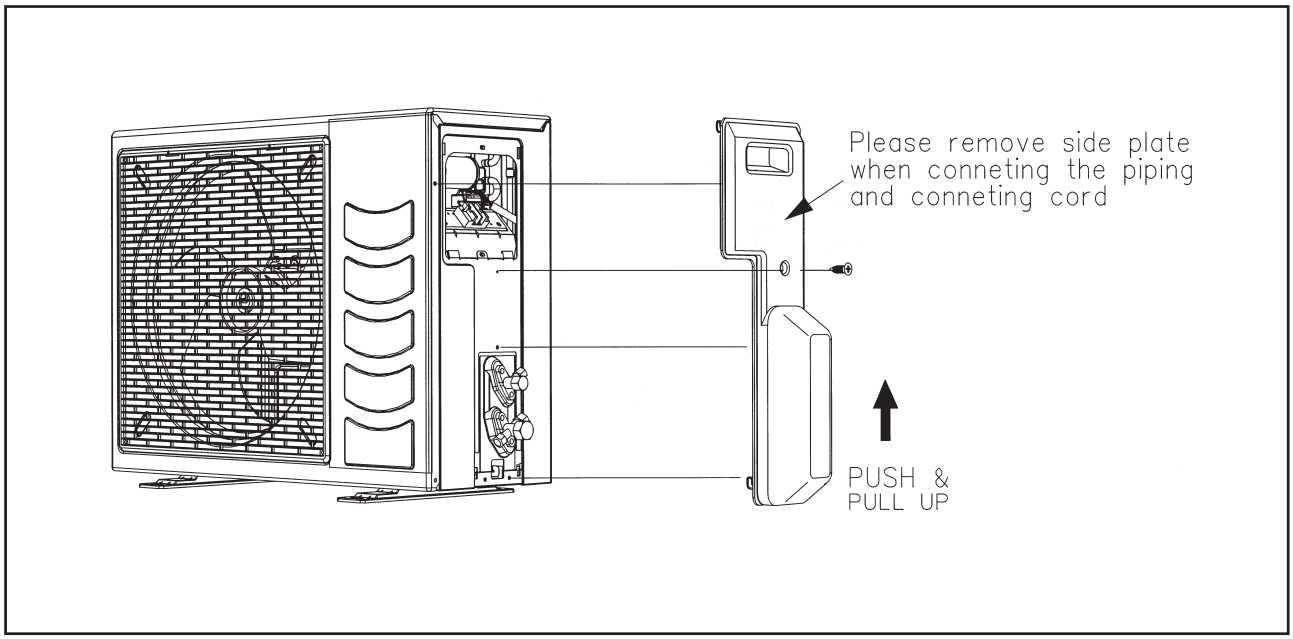

| ALL MODELS | A | B | C | D |
|---|---|---|---|---|
| Minimum Distance | 300 mm | 1000 mm | 300 mm | 500 mm |

**CAUTION : If the condensing unit is operated in an atmosphere containing oils(including machine oils), salt(coastal area), sulphide gas(near hot spring, oil refinery plant), such substances may lead to failure of the unit.**

**CONDENSED WATER DISPOSAL OF OUTDOOR UNIT (HEATPUMP UNIT ONLY)**

- There are 2 holes on the base of outdoor unit for condensed water to flow out. Insert the drain elbow to one of the holes.
- To install the drain elbow, first insert one portion of the hook to the base (portion A), then pull the drain elbow in the direction shown by the arrow while inserting the other portion to the base. After installation, check to ensure that the drain elbow clings to base firmly.
- If the unit is installed in a snowy and chilly area, condensed water may freeze in the base. In such case, please remove plug at the bottom of unit to smooth the drainage.



## 2) DRILLING HOLES AND MOUNTING INSTALLATION PLATE

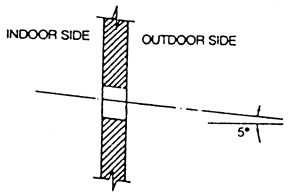
**CAUTION:**

i) Please check the unit weight for each model. Always ensure that the wall is sufficiently strong to withstand the weight. If not, it is necessary to reinforce the wall with plate, beams or pillars.

ii) The unit cannot be directly fixed onto the wall or the likes. In all cases, the installation plate provided MUST be used.

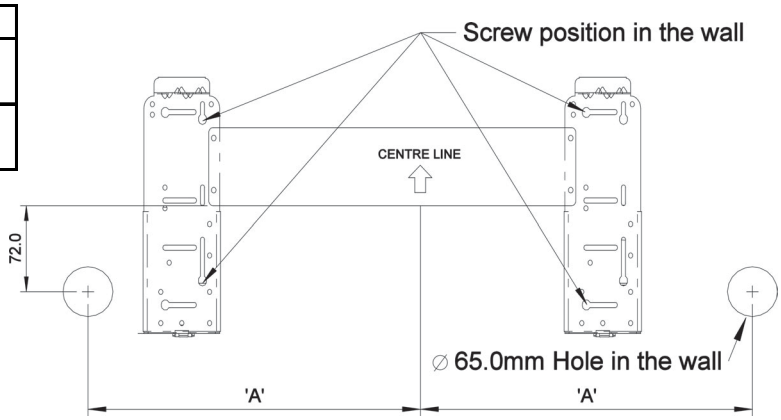
- Paste the installation plan provided on the desired location on the wall and mark the holes location accordingly.
- Ensure that the minimum maintenance and servicing space at the top, left and right side of the unit is reserved.
- Ensure also the levelness of the installation plate.
- Drill the screw mounting holes (minimum 4 screws are required).
- Drill the pipe hole at the location as per plan. (This is only applicable for rear piping outlet installation).

Note: The hole should be drilled slightly lower at outdoor side as per figure below:--

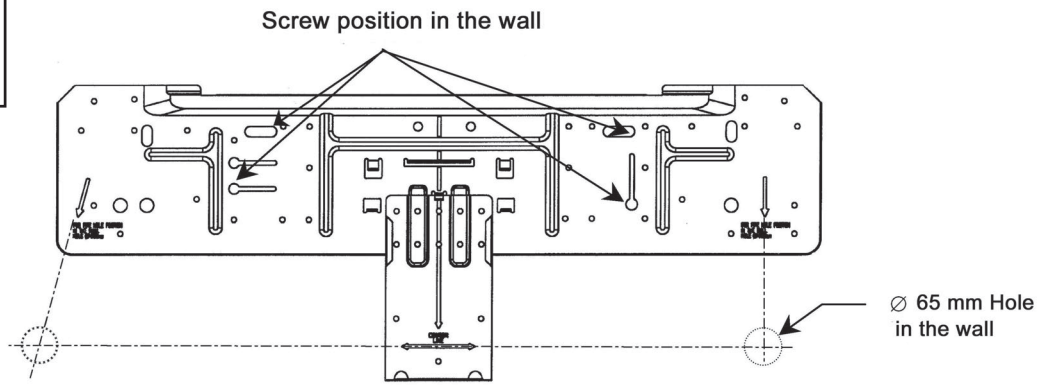



- Fix the installation plate firmly to wall, without tilting to left or right. Use a plumb line, if available.

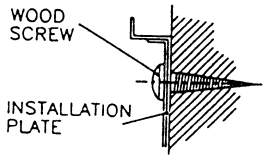
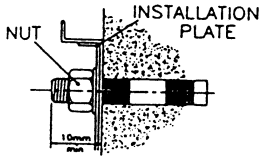
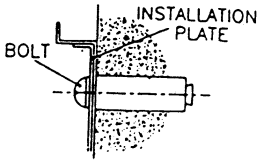
| MODEL | DIMENSION 'A' |
|---|---|
| MWM 007/009 G/GR | 350.0 mm |
| M5WM 007/009 G/GR | |
| MWM 010/015 G/GR | 400.0 mm |
| M5WM 010/015 G/GR | |




MODEL
MWM 020 / 025 G/GR
M5WM 020 / 025 G/GR
MWM 030F / 030FR
M5WM 031F / 30FR



- Fixing method:-

| WOODEN FRAME WALL | REINFORCED CONCRETE BUILDING | |
|---|---|---|
| | NUT ANCHOR | BOLT ANCHOR |
|  |  |  |

### 3) INDOOR UNIT PREPARATION

- The refrigerant piping can be routed to the unit in 5 direction, by using the cut outs in the unit casing. (See fig. 1)

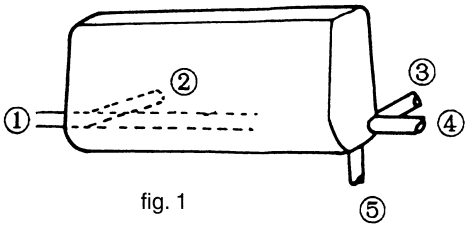



fig. 1

- Carefully bend the pipes to the required position to align with the hole. For right hand and rear side draw out, hold the bottom of the piping and fix direction before shaping it to the desired position (See fig. 2). The condensation drain hose should be taped to the pipes with vinyl tape. The electrical cable can also be taped to the pipes.

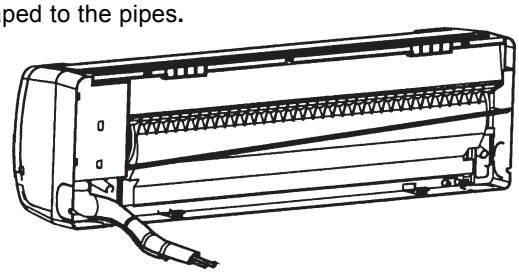
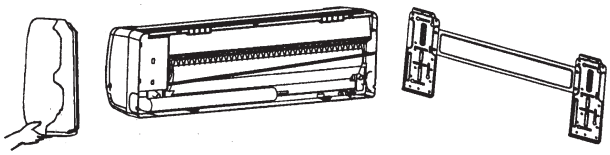


fig. 2

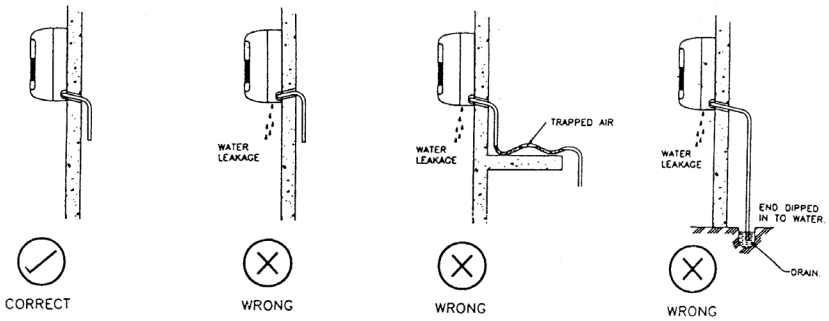
### 4) MOUNTING INDOOR UNIT

Hook the indoor unit onto the upper portion of installation plate. (Engage the 2 hooks of rear top of the indoor unit with the upper edge of the installation plate). Ensure the hooks are properly seated on the installation plate by moving in left and right.



### 5) WATER DRAINAGE PIPING

The indoor drain pipe must be downward gradient for smooth drainage. Avoid situation as shown in figure below.



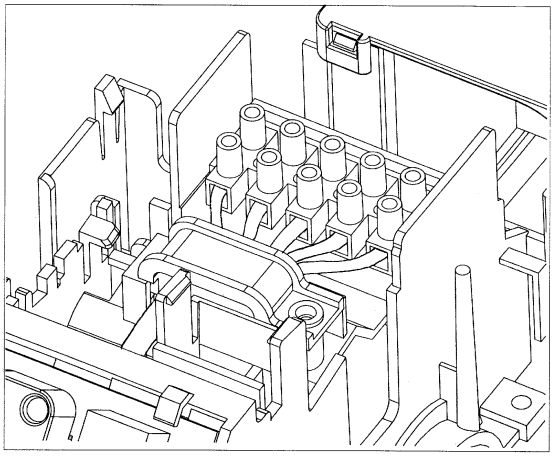
## 6) WIRING

### ELECTRICAL CONNECTION

- Wiring regulation on wire diameters differ from country to country. Please refer to your LOCAL ELECTRICAL CODES for field wiring rules. Be sure that installation comply with such rules and regulations.

### GENERAL PRECAUTIONS

- Ensure that the rated voltage of the unit corresponds to the name plate before carrying out proper wiring according to the wiring diagram.
- Provide a power outlet to be used exclusively for each unit. A power supply disconnect and a circuit breaker for over current protection should be provided in the exclusive line.
- The unit must be GROUNDED to prevent possible hazards due to insulation failures.
- All wiring must be firmly connected.
- All wiring must not touch the hot refrigerant piping, compressor or any moving parts of fan motors.
- The field wires from the indoor unit must be clamped on the wire clamp as per shown in the figure.



## 7) REFRIGERANT PIPING

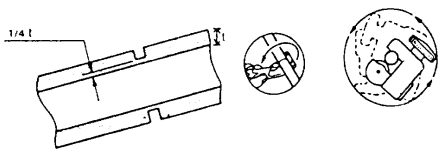
### MAXIMUM PIPE LENGTH AND MAXIMUM NUMBER OF BENDS

Always choose the shortest path for refrigerant piping and follow the recommendations as tabulated below:

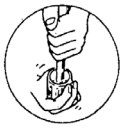
| Model / Data | MWM/M5WM 007G/GR | MWM 009G/GR | MWM/M5WM 010G/GR | MWM/M5WM 015G/GR | MWM/M5WM 020G/GR | MWM/M5WM 025G/GR | M5WM 031F/030FR MWM 030F/R |
|---|---|---|---|---|---|---|---|
| Max. Length, L (m) | 12 | 12 | 12 | 12 | 15 | 15 | 35 |
| Max. Elevation, H (m) | 5 | 5 | 5 | 5 | 8 | 8 | 15 |
| Max. No. of Bends | 10 | 10 | 10 | 10 | 10 | 10 | 10 |

### FLARE CONNECTION

- Cut the pipe stages by stages, advancing the blade of pipe cutter slowly.

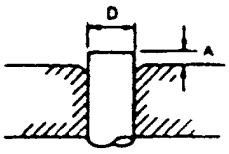


• Remove burr with the burr remover. Hold the flaring end down to prevent burrs from dropping inside pipe.



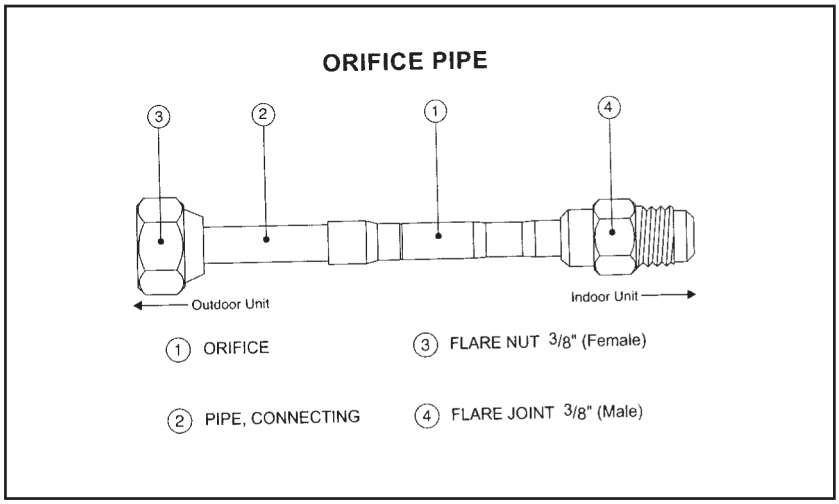
• The exact length of pipe protruding from the face of the flare die is determined by the flaring tool. The table shows the use of an imperial die and riged die.

| PIPE ∅, D (mm) | A(mm) | |
|---|---|---|
| | IMPERIAL DIE | RIGED DIE |
| 6.35 (1/4”) | 1.3 | 0.7 |
| 9.52 (3/8”) | 1.6 | 1 |
| 12.7 (1/2”) | 1.9 | 1.3 |
| 15.88 (5/8”) | 2.2 | 1.7 |

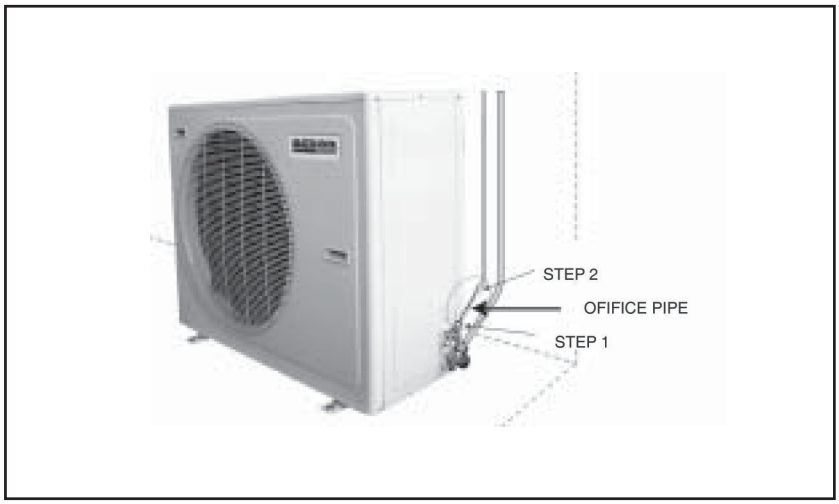



Fix the pipe firmly on the flare die. Match the centers of both the flare die and the flaring punch, and tighten flaring punch fully.

**8) INSTALLATION OF SEPARATE ORIFICE KIT AT OUTDOOR**



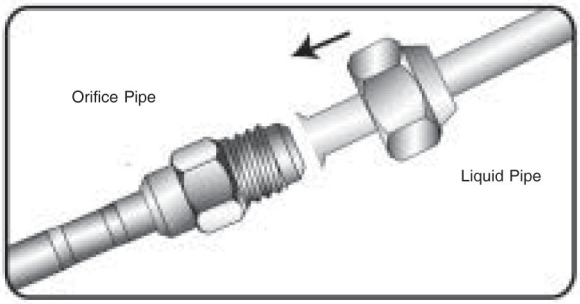

i) Outdoor Unit Installation Space Is Wide Enough



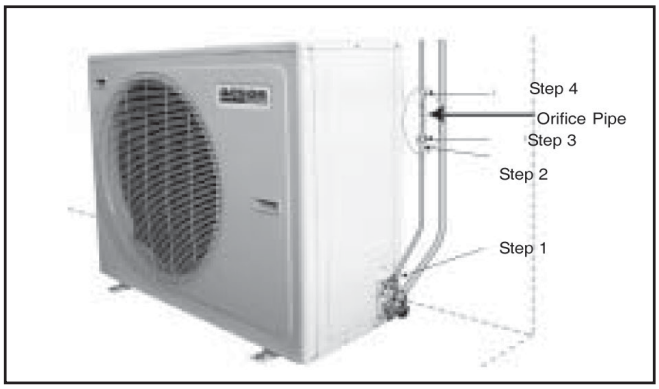
Steps :

a) Directly connect the “Female” nut of orifice pipe to the liquid pipe.

b) Flare the liquid pipe and connect it to the “Male” joint of the orifice pipe.



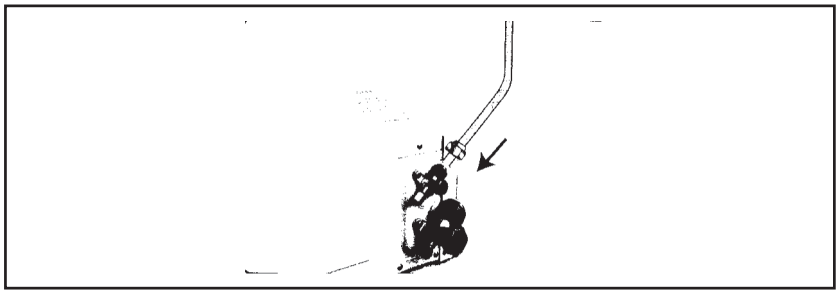

ii) Outdoor Installation Space Is Limited



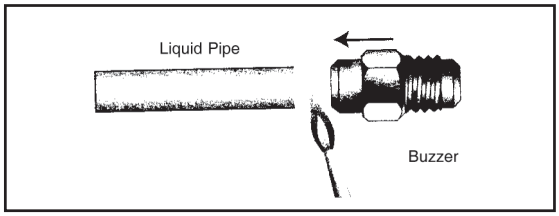

If the orifice pipe can not be connected directly to the liquid valve due to limitation space, it can be connected between the liquid pipes.

Steps :

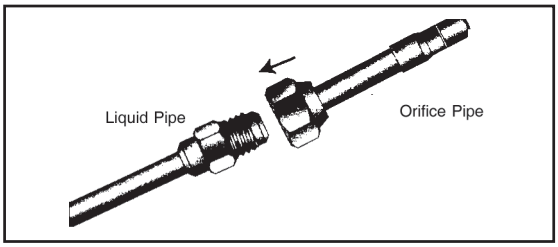
a) Flare the liquid pipe and connect it to the liquid valve.



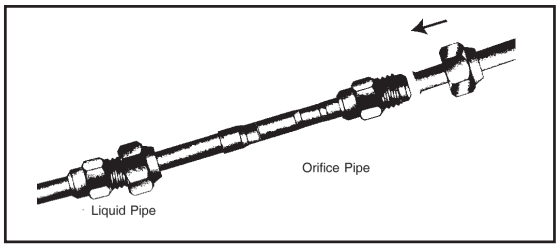
b) Braze an addition “Male” joint to the liquid pipe.



c) Connect the “Female” nut of the orifice pipe to the “Male” joint.

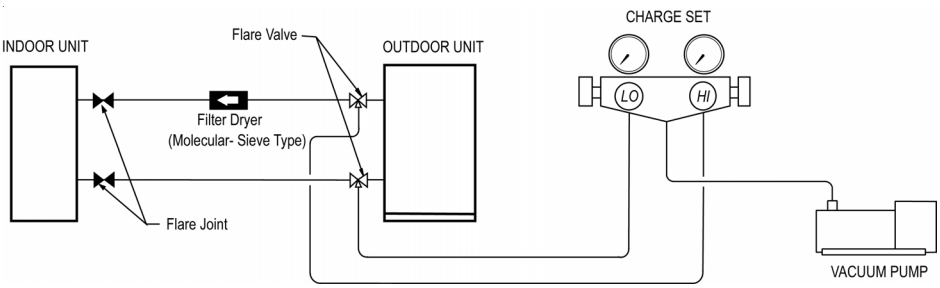



d) Flare another liquid pipe and connect it to the “Male”joint of the orifice pipe.



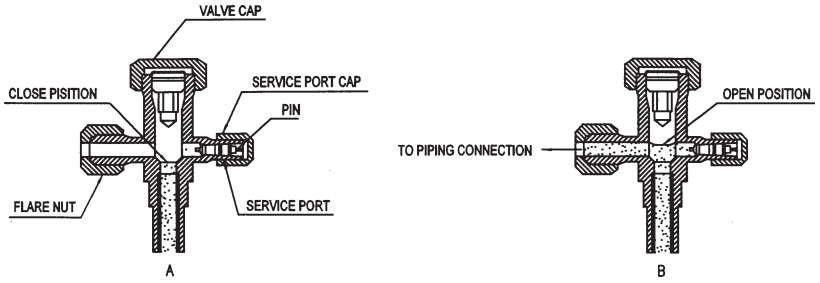

**9) VACUUMING AND CHARGING**

- The precharged outdoor unit does not need any vacuuming or charging. However once it is connected, the connecting pipe line and the indoor need to be vacuumed before releasing the R22/R407C/R410A from the outdoor unit.
  1) Open the service port core cap.
  2) Connect pressure gauge to the service port.
  3) Connect the line to vacuum pump. Open the charging manifold valve and turn the pump on. Vacuum to –0.1 MPa (-760mmHg) or lower. (Evacuation time varies by the pump but averagely in 1 hour).




*Note : R407C – Fix filter dryer*
*R22 - Nil*
*R410A - Nil*

4) After evacuation, unscrew the spindle (diagram B) for the gas to run to indoor unit.



5) Decision by low side pressure. Turn compressor on for 10 or 15 min.

| Model | Standard Condition | | Heavy Load Condition | |
|---|---|---|---|---|
| | Indoor 27°C / Outdoor 35°C | | Indoor 32°C / Outdoor 43°C | |
| | kg/cm² | psig | kg/cm² | psig |
| **MWM 007G** | 5.2 ~ 5.7 | 74.3 ~ 81.0 | 5.7 ~ 6.2 | 81.9 ~ 89.1 |
| **MWM 009G** | 4.7 ~ 5.5 | 66.6 ~ 78.6 | 5.0 ~ 5.8 | 71.2 ~ 83.1 |
| **MWM 010G** | 4.9 ~ 5.7 | 70.6 ~ 81.8 | 5.4 ~ 6.1 | 76.5 ~ 86.6 |
| **MWM 015G** | 4.7 ~ 5.2 | 67.6 ~ 74.7 | 5.2 ~ 5.6 | 74.0 ~ 80.4 |
| **MWM 020G** | 4.6 ~ 4.8 | 66 ~ 69 | 4.9 ~ 5.2 | 70 ~ 74 |
| **MWM 025G** | 4.1 ~ 4.7 | 59 ~ 67 | 4.7 ~ 5.1 | 67 ~ 73 |
| **MWM 030F** | 4.0 ~ 4.8 | 56.9 ~ 68.3 | 4.5 ~ 5.0 | 64.0 ~ 71.1 |
| **MWM 007GR** | 5.2 ~ 5.8 | 74.8 ~ 82.3 | 5.6 ~ 6.1 | 79.3 ~ 87.7 |
| **MWM 009GR** | 4.8 ~ 5.7 | 68.9 ~ 81.4 | 5.2 ~ 5.9 | 73.7 ~ 84.8 |
| **MWM 010GR** | 4.9 ~ 5.9 | 70.5 ~ 83.7 | 5.4 ~ 6.3 | 76.5 ~ 90.7 |
| **MWM 015GR** | 4.9 ~ 6.3 | 69.4 ~ 89.3 | 5.0 ~ 6.6 | 71.7 ~ 93.8 |
| **MWM 020GR** | 4.6 ~ 5.0 | 66 ~ 72 | 4.9 ~ 5.4 | 70 ~ 77 |
| **MWM 025GR** | 4.2 ~ 4.8 | 60 ~ 68 | 4.7 ~ 5.1 | 67 ~ 73 |
| **MWM 030FR** | 4.0 ~ 4.8 | 56.9 ~ 68.3 | 4.5 ~ 5.0 | 64.0 ~ 71.1 |
| | | | | |
| **M5WM 007G** | 9.6 ~ 10.0 | 137.5 ~ 143.2 | 10.4 ~ 10.7 | 148.4 ~ 153.1 |
| **M5WM 009G/010G** | 9.4 ~ 9.9 | 134.9 ~ 141.8 | 10.2 ~ 10.6 | 145.4 ~ 152.1 |
| **M5WM 015G** | 8.9 ~ 9.3 | 127.3 ~ 132.3 | 9.3 ~ 9.7 | 133.1 ~ 138.1 |
| **M5WM 020G** | 8.5 ~ 8.8 | 121 ~ 125 | 9.3 ~ 9.6 | 133 ~ 137 |
| **M5WM 025G** | 8.0 ~ 8.3 | 114 ~ 118 | 9.0 ~ 9.2 | 128 ~ 132 |
| **M5WM 031F** | 8.0 ~ 8.6 | 114 ~ 122 | 8.7 ~ 9.4 | 124 ~ 133 |
| **M5WM 007GR** | 9.6 ~ 9.9 | 136.6 ~ 141.0 | 10.8 ~ 11.1 | 154.1 ~ 159.1 |
| **M5WM 009GR/010GR** | 9.4 ~ 9.9 | 134.4 ~ 141.9 | 9.9 ~ 10.5 | 141.4 ~ 149.7 |
| **M5WM 015GR** | 9.0 ~ 9.4 | 128.0 ~ 134.2 | 9.4 ~ 9.9 | 134.6 ~ 142.0 |
| **M5WM 020GR** | 8.3 ~ 8.8 | 119 ~ 125 | 8.8 ~ 9.2 | 125 ~ 132 |
| **M5WM 025GR** | 7.7 ~ 8.3 | 110 ~ 118 | 8.4 ~ 9.0 | 120 ~ 129 |
| **M5WM 030FR** | 8.0 ~ 8.6 | 114 ~ 122 | 8.7 ~ 9.4 | 124 ~ 133 |

Within the value refrigerant cycle normal.
Lower than value refrigerant cycle has some leaks check, amend and top up is necessary.
Extremely low ( ≅ zero) needs evacuation and charge.

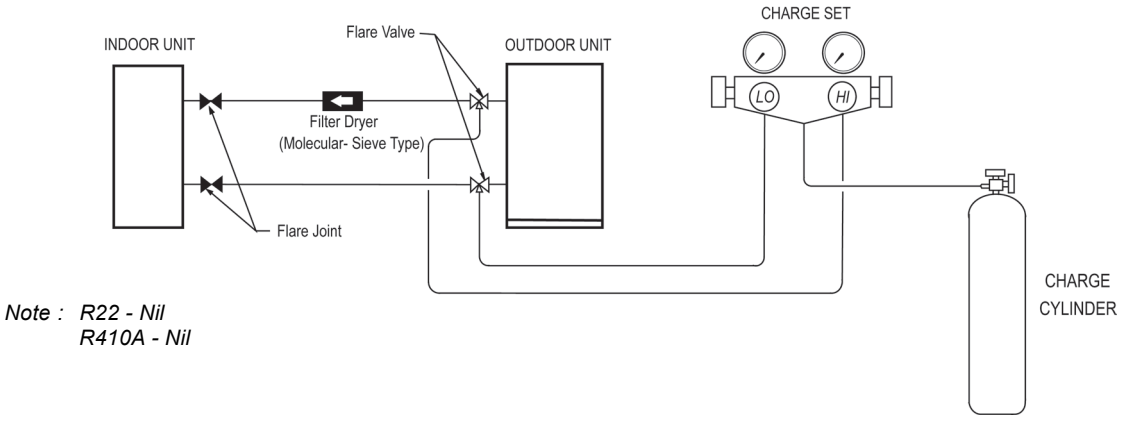
## Additional Charge

- The refrigerant gas is charged in the outdoor unit and, if the piping length is 7.6m, additional charge of the refrigerant after vacuuming is not necessary.
- When the piping length is more than 7.6m, please use the table below :

Additional charge in gram.

| | 10m | 12m | 15m | 25m | 35m |
|---|---|---|---|---|---|
| **R22 MODELS** | | | | | |
| MWM 007G / 009G / 010G / 015G | 35 | 65 | - | - | - |
| MWM 020G | 35 | 65 | 110 | - | - |
| MWM 025G | 90 | 165 | 280 | - | - |
| MWM 030F | 90 | 165 | 280 | 650 | 1030 |
| MWM 007GR / 009GR / 010GR / 015GR | 50 | 90 | - | - | - |
| MWM 020GR | 60 | 110 | 185 | - | - |
| MWM 025GR | 120 | 220 | 370 | - | - |
| MWM 030FR | 120 | 220 | 370 | 870 | 1370 |
| **R410A MODELS** | | | | | |
| M5WM 007G / 009G / 010G / 015G | 35 | 60 | - | - | - |
| M5WM 020G | 35 | 60 | 100 | - | - |
| M5WM 025G | 80 | 150 | 255 | - | - |
| M5WM 031F | 80 | 150 | 255 | 600 | 950 |
| M5WM 007GR / 009GR / 010GR / 015GR | 45 | 80 | - | - | - |
| M5WM 020GR | 55 | 100 | 165 | - | - |
| M5WM 025GR | 110 | 200 | 335 | - | - |
| M5WM 030FR | 110 | 200 | 335 | 790 | 1250 |

Diagram shows typical charging method.




*Note : R22 - Nil*
*R410A - Nil*

**CAUTION FOR R410A**

**Avoid prolong exposure of an opened compressor, or the internal part of refrigerant piping to moist air. The POE oil in the compressor and piping can absorb moisture from air.**

**10) FINAL CHECKING**

- Ensure that steps 1 to 8 are closely followed.

- Ensure the following, in particular :-
  1) The unit is mounted solidly and rigidly in position.
  2) Piping and connections are leak proof after charging.
  3) Proper wiring has been done.

- Trial run
  1) Conduct a trial run after water drainage test and gas leakage test.
  2) Watch out for the following :-
     a) Is the electric plug firmly inserted into the socket?
     b) Is there any abnormal sound from unit?
     c) Is there any abnormal vibrations with regard to unit itself or pipings?
     d) Is there smooth drainage of water?

- Check that :
  1) Condenser fan is running, with warm air blowing off the condensing unit.
  2) Evaporator blower is running and discharging cool air.
  3) Suction (Low side) pressure as per recommended.
  4) The remote controller incorporate a 3 minute delay in their circuit. Thus, it requires about 3 minutes upon cut off before the outdoor condensing unit can start up.

## SPECIAL PRECAUTIONS WHEN DEALING WITH REFRIGERANT R410A UNIT

### 1) WHAT IS NEW REFRIGERANT R410A?

R410A is a new HFC refrigerant which does not damage the ozone layer. The working pressure of this new refrigerant is 1.6 times higher than conventional refrigerant (R22), thus proper installation / servicing is essential.

### 2) COMPONENTS

Mixture weight composition R32(50%) and R125(50%)

### 3) CHARACTERISTIC

- R410A liquid and vapor components have different compositions when the fluid evaporates or condenses. Hence, when leak occurs and only vapor leaks out, the composition of the refrigerant mixture left in the system will change and subsequently affect the system performance. **DO NOT** add new refrigerant to leaked system. It is recommended that the system should be evacuated thoroughly before recharging with R410A.
- When refrigerant R410A is used, the composition will differ depending on whether it is in gaseous or liquid phase. Hence when charging R410A, ensure that only liquid is being withdrawn from the cylinder or can. This is to make certain that only original composition of R410A is being charged into the system.
- POE oil is used as lubricant for R410A compressor, which is different from the mineral oil used for R22 compressor. Extra precaution must be taken not to expose the R410A system too long to moist air.

### 4) CHECK LIST BEFORE INSTALLATION/SERVICING

- Tubing
  Refrigerant R410A is more easily affected by dust of moisture compared with R22, make sure to temporarily cover the ends of the tubing prior to installation
- Compressor oil
  No additional charge of compressor oil is permitted.
- Refrigerant
  No other refrigerant other that R410A
- Tools (size of service port is different from R22 system)
  Tools specifically for R410A only (must not be used for R22 or other refrigerant)
  i) Manifold gauge and charging hose
  ii) Gas leak detector
  iii) Refrigerant cylinder/charging cylinder
  iv) Vacuum pump c/w adapter
  v) Flare tools
  vi) Refrigerant recovery machine

### 5) HANDLING AND INSTALLATION GUIDELINES

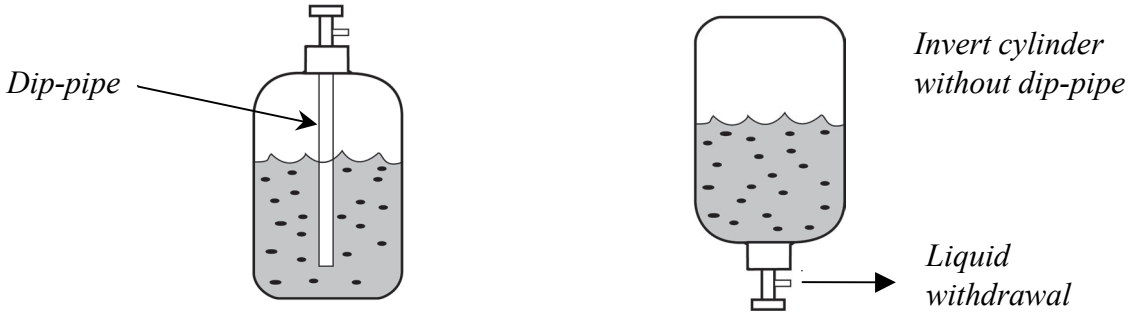
Like R22 system, the handling and installation of R410A system are closely similar. All precautionary measures; such as ensuring no moisture, no dirt or chips in the system, clean brazing using nitrogen, and thorough leak check and vacuuming are equally important requirements. However, due to its hydroscopic POE oil, additional precautions must be taken to ensure optimum and trouble free system operation.

a) During installation or servicing, avoid prolong exposure of the internal part of the refrigerant system to moist air. Residual POE oil in the piping and components can absorb moisture from the air.

b) Ensure that the compressor is not expose to open air for more than the recommended time specified by its manufacturer (typically less than 10 minutes). Removed the seal plugs only when the compressor is about to be brazed.

c) The system should be thoroughly vacuumed to 1.0 Pa ( 700mmHg) or lower. This vacuuming level is more stringent than R22 system so as to ensure no incompressible gas and moisture in the system.

d) When charging R410A, ensure that only liquid is being withdrawn from the cylinder or can. This is to ensure that only the original composition of R410A is being delivered into the system. The liquid composition can be different from the vapor composition.




f) Normally, the R410A cylinder or can is being equipped with a dip pipe for liquid withdrawal. However, if the dip pipe is not available, invert the cylinder or can so as to withdraw liquid from the valve at the bottom.

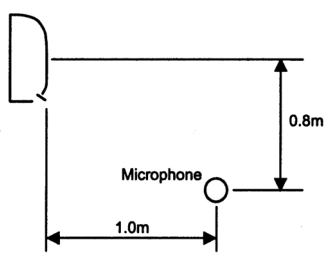
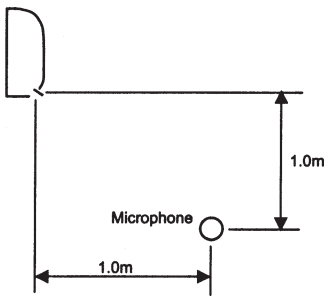
# Sound Data

## Sound Pressure Level (Measured In Anechoic Room)

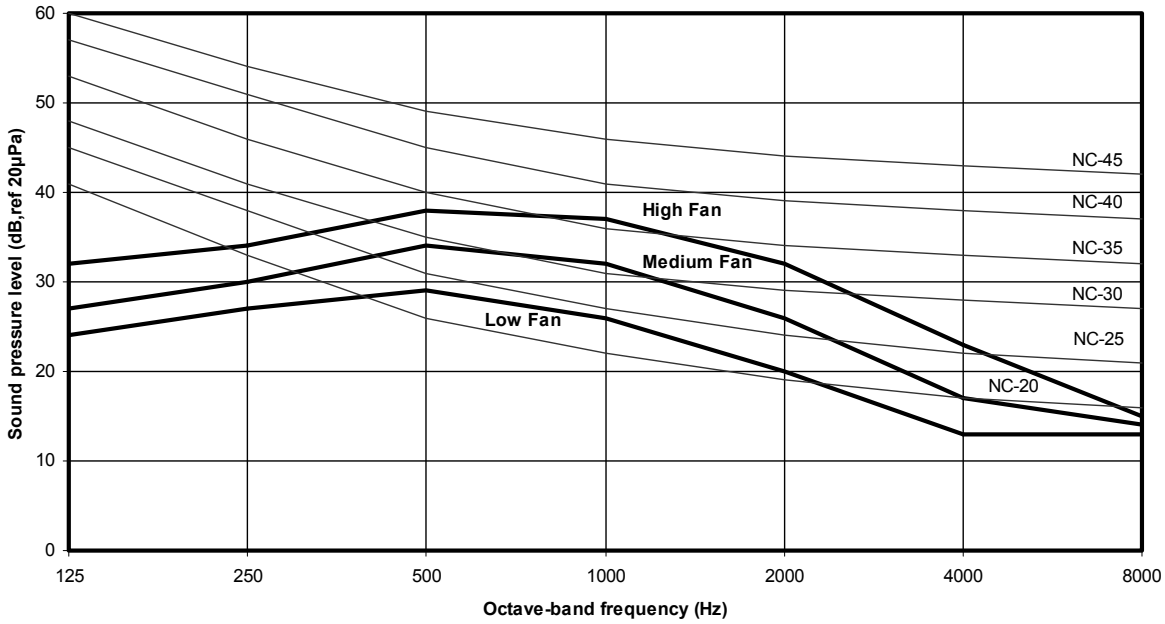
WALL MOUNTED FAN COIL UNIT

| Model | Speed | 1/1 Octave Sound Pressure Level (dB, ref 20μPa) | | | | | | | Overall (dBA) | Noise Criteria |
|---|---|---|---|---|---|---|---|---|---|---|
| | (RPM) | 125 Hz | 250 Hz | 500 Hz | 1k Hz | 2k Hz | 4k Hz | 8k Hz | | |
| MWM 007G/GR<br>MWM 009G/GR<br>M5WM 007G/GR<br>M5WM 009G/GR | HIGH | 32 | 34 | 38 | 37 | 32 | 23 | 15 | 40 | 36 |
| | MEDIUM | 27 | 30 | 34 | 32 | 26 | 17 | 14 | 35 | 31 |
| | LOW | 24 | 27 | 29 | 26 | 20 | 13 | 13 | 29 | 24 |
| MWM 010G/GR<br>M5WM 010G/GR | HIGH | 28 | 34 | 37 | 36 | 31 | 22 | 13 | 39 | 35 |
| | MEDIUM | 27 | 30 | 33 | 31 | 25 | 17 | 12 | 34 | 30 |
| | LOW | 24 | 26 | 28 | 25 | 19 | 12 | 11 | 28 | 23 |
| MWM 015G/GR<br>M5WM 015G/GR | HIGH | 30 | 35 | 39 | 38 | 33 | 25 | 15 | 42 | 37 |
| | MEDIUM | 28 | 31 | 34 | 33 | 26 | 18 | 13 | 36 | 32 |
| | LOW | 24 | 26 | 28 | 26 | 20 | 13 | 12 | 29 | 24 |
| MWM 020G/GR<br>M5WM 020G/GR | HIGH | 37 | 44 | 42 | 37 | 34 | 25 | 15 | 43 | 37 |
| | MEDIUM | 34 | 40 | 39 | 34 | 30 | 21 | 14 | 40 | 34 |
| | LOW | 30 | 35 | 35 | 30 | 26 | 18 | 13 | 35 | 30 |
| MWM 025G/GR<br>M5WM 025G/GR | HIGH | 41 | 48 | 47 | 43 | 40 | 32 | 23 | 49 | 43 |
| | MEDIUM | 39 | 44 | 43 | 39 | 35 | 28 | 20 | 44 | 38 |
| | LOW | 37 | 41 | 40 | 36 | 32 | 25 | 19 | 42 | 35 |
| MWM 030F/030FR<br>M5WM 031F/030FR | HIGH | 42 | 46 | 45 | 44 | 41 | 35 | 28 | 49 | 43 |
| | MEDIUM | 40 | 45 | 44 | 43 | 35 | 33 | 27 | 47 | 42 |
| | LOW | 37 | 43 | 43 | 40 | 35 | 30 | 26 | 45 | 39 |

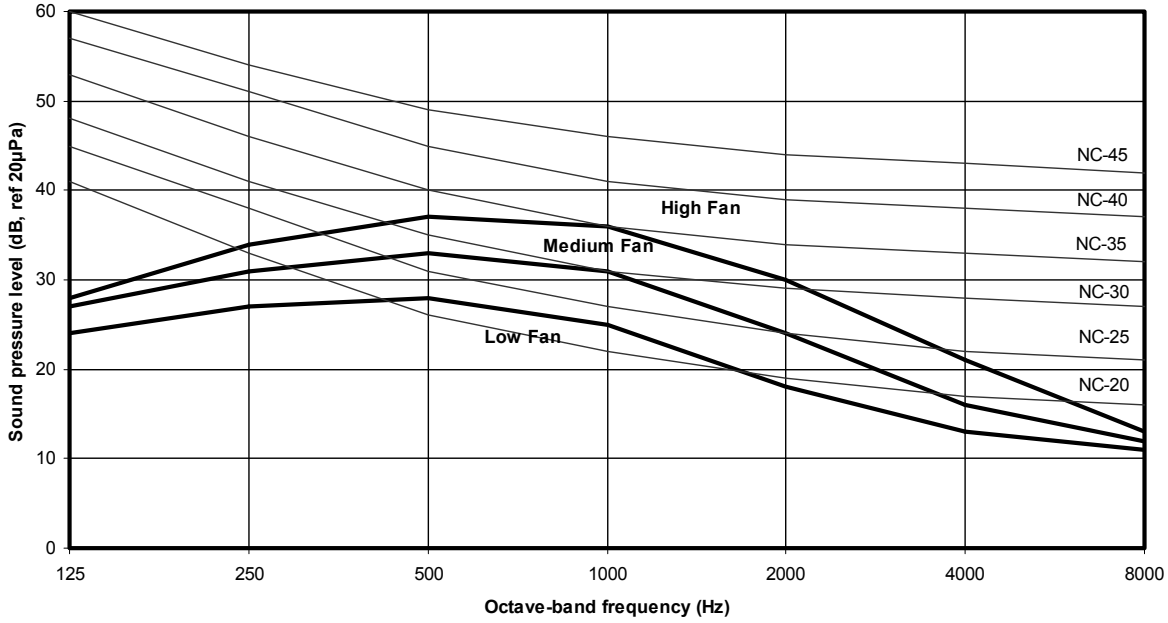
Microphone position - M5WM/MWM-G/GR : 1m in front and 0.8m below the vertical centre line of the unit. (JIS C 9612)
- M5WM/MWM 030F/FR : 1m in front and 1m below the vertical centre line of the unit. (JIS B 8615)

| Model | Measuring location |
|---|---|
| **MWM 007G/GR**<br>**MWM 009G/GR**<br>**MWM 010G/GR**<br>**MWM 015G/GR**<br>**MWM 020G/GR**<br>**MWM 025G/GR**<br>**M5WM 007G/GR**<br>**M5WM 009G/GR**<br>**M5WM 010G/GR**<br>**M5WM 015G/GR**<br>**M5WM 020G/GR**<br>**M5WM 025G/GR** |  <br>Standard : JIS C 9612 |
| **MWM 030F/030FR**<br>**M5WM 031F/030FR** |  <br>Standard : JIS B 8615 |

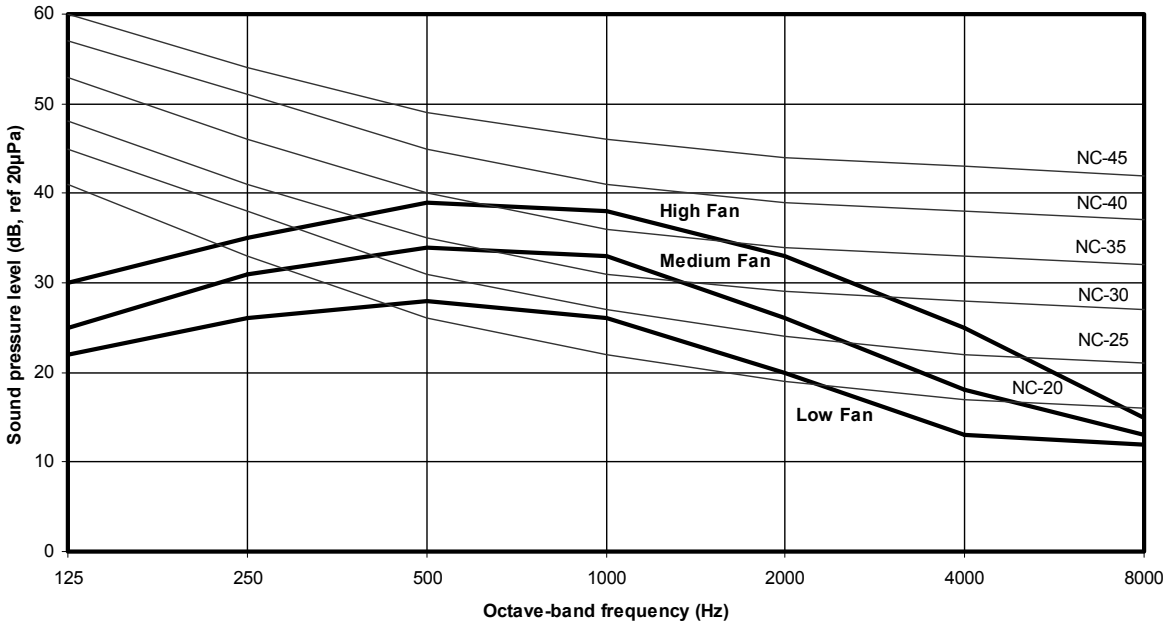
## MWM 007G, 009 G/GR , M5WM 007 / 009 G/GR
## NC CURVES



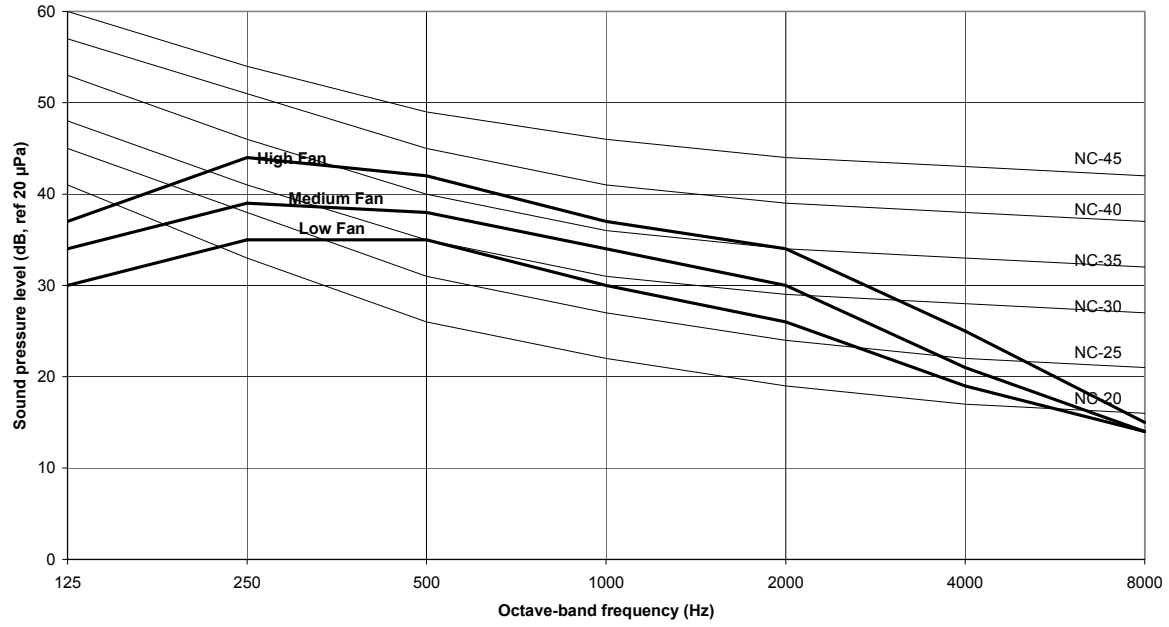

## MWM 010 G/GR , M5WM 010 G/GR
## NC CURVES



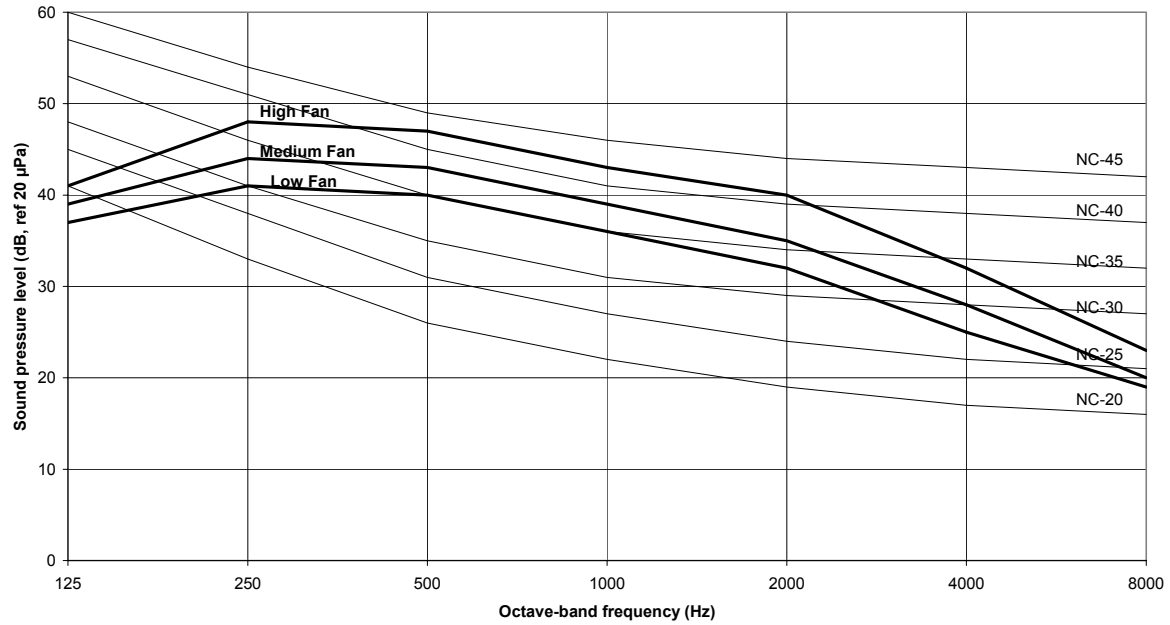
## MWM 015 G/GR , M5WM 015 G/GR
## NC CURVES



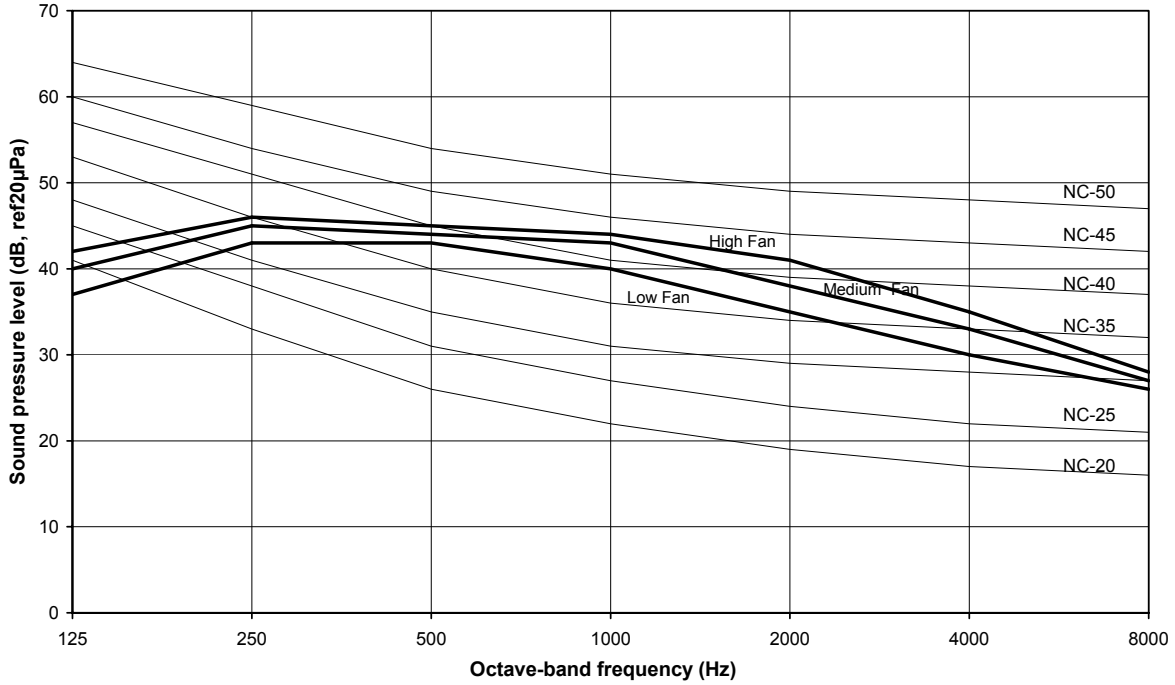

## MWM 020 G/GR , M5WM 020 G/GR
## NC CURVES



## MWM 025 G/GR , M5WM 025 G/GR
## NC CURVES




## MWM 030F/030FR , M5WM 031F/030FR
## NC CURVES



# Engineering and Physical Data

## General Data - Cooling Only (R22)

| | | | | | | |
|---|---|---|---|---|---|---|
| **MODEL** | | **INDOOR UNIT** | | | **MWM 007G** | **MWM 009G** |
| | | **OUTDOOR UNIT** | | | **MLC 007C** | **MLC 009C** |
| **NOMINAL CAPACITY** | | | | **Btu/h** | 7000 | 9000 |
| | | | | **W** | 2050 | 2640 |
| **NOMINAL TOTAL INPUT POWER** | | | | **W** | 590 | 919 |
| **NOMINAL RUNNING CURRENT** | | | | **A** | 2.7 | 4.1 |
| **POWER SOURCE** | | | | **V/Ph/Hz** | 220-240/1/50 | |
| **EER** | | | | **W/W** | 3.47 | 2.87 |
| **REFRIGERANT TYPE** | | | | | R22 | |
| **REFRIGERANT CONTROL (EXPANSION DEVICE)** | | | | | OUTDOOR CAP. TUBE | |
| **INDOOR UNIT** | **CONTROL** | **AIR DISCHARGE** | | | DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) | |
| | | **OPERATION** | | | LCD REMOTE CONTROL | |
| | **AIR FLOW** | | **HIGH** | **l/s / cfm** | 118 / 250 | 130 / 275 |
| | | | **MEDIUM** | **l/s / cfm** | 104 / 220 | 106 / 225 |
| | | | **LOW** | **l/s / cfm** | 85 / 180 | 83 / 175 |
| | **SOUND PRESSURE LEVEL (H/M/L)** | | | **dBA** | 38 / 33 / 28 | 40 / 35 / 29 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 260 / 10.2 | |
| | | | **WIDTH** | **mm/in** | 799 / 31.5 | |
| | | | **DEPTH** | **mm/in** | 198 / 7.8 | |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 337 / 13.3 | 337 / 13.3 |
| | | | **WIDTH** | **mm/in** | 857 / 33.7 | 857 / 33.7 |
| | | | **DEPTH** | **mm/in** | 270 / 10.6 | 270 / 10.6 |
| | **UNIT WEIGHT** | | | **kg/lb** | 8.5 / 18.74 | 10/22.05 |
| | **CONDENSATE DRAIN SIZE** | | | **mm/in** | 16 / 0.63 | |
| **OUTDOOR UNIT** | **AIR FLOW** | | | **l/s / cfm** | 321 / 680 | 307 / 650 |
| | **SOUND PRESSURE LEVEL** | | | **dBA** | 45 | |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 495/19.5 | |
| | | | **WIDTH** | **mm/in** | 600/23.6 | |
| | | | **DEPTH** | **mm/in** | 245/9.7 | |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 575/22.6 | |
| | | | **WIDTH** | **mm/in** | 715/28.1 | |
| | | | **DEPTH** | **mm/in** | 330/13.0 | |
| | **UNIT WEIGHT** | | | **kg/lb** | 28/61.73 | |
| | **PIPE CONNECTION** | **TYPE** | | | FLARE VALVE | |
| | | **SIZE** | **LIQUID** | **mm/in** | 6.35 / 1/4 | |
| | | | **GAS** | **mm/in** | 9.52 / 3/8 | |
| | **REFRIGERANT CHARGE** | | | **kg/lb** | 0.5/ 1.1 | 0.525/ 1.156 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*
*3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :*
*COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR*
*4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.*

## General Data - Cooling Only (R22)

| | | | | | | |
|---|---|---|---|---|---|---|
| **MODEL** | | **INDOOR UNIT** | | | **MWM 010G** | **MWM 015G** |
| | | **OUTDOOR UNIT** | | | **MLC 010C** | **MLC 015C** |
| **NOMINAL CAPACITY** | | | | **Btu/h** | 9500 | 12000 |
| | | | | **W** | 2780 | 3520 |
| **NOMINAL TOTAL INPUT POWER** | | | | **W** | 860 | 1100 |
| **NOMINAL RUNNING CURRENT** | | | | **A** | 3.8 | 5.4 |
| **POWER SOURCE** | | | | **V/Ph/Hz** | 220-240/1/50 | |
| **EER** | | | | **W/W** | 3.23 | 3.2 |
| **REFRIGERANT TYPE** | | | | | R22 | |
| **REFRIGERANT CONTROL (EXPANSION DEVICE)** | | | | | OUTDOOR CAP. TUBE | |
| **INDOOR UNIT** | **CONTROL** | **AIR DISCHARGE** | | | DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) | |
| | | **OPERATION** | | | LCD REMOTE CONTROL | |
| | **AIR FLOW** | | **HIGH** | **l/s / cfm** | 142 / 300 | 163 / 345 |
| | | | **MEDIUM** | **l/s / cfm** | 118 / 250 | 135 / 285 |
| | | | **LOW** | **l/s / cfm** | 94 / 200 | 104 / 220 |
| | **SOUND PRESSURE LEVEL (H/M/L)** | | | **dBA** | 39 / 34 / 28 | 42 / 36 / 29 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 260 / 10.2 | |
| | | | **WIDTH** | **mm/in** | 899 / 35.4 | |
| | | | **DEPTH** | **mm/in** | 198 / 7.8 | |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 337 / 13.3 | |
| | | | **WIDTH** | **mm/in** | 957 / 37.7 | |
| | | | **DEPTH** | **mm/in** | 270 / 10.6 | |
| | **UNIT WEIGHT** | | | **kg/lb** | 12/26.46 | |
| | **CONDENSATE DRAIN SIZE** | | | **mm/in** | 16 / 0.63 | |
| **OUTDOOR UNIT** | **AIR FLOW** | | | **l/s / cfm** | 396 / 840 | 453 / 960 |
| | **SOUND PRESSURE LEVEL** | | | **dBA** | 46 | 49 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 540/21.3 | |
| | | | **WIDTH** | **mm/in** | 700/27.6 | |
| | | | **DEPTH** | **mm/in** | 250/9.8 | |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 620/24.4 | |
| | | | **WIDTH** | **mm/in** | 810/31.9 | |
| | | | **DEPTH** | **mm/in** | 330/13.0 | |
| | **UNIT WEIGHT** | | | **kg/lb** | 32/70.55 | |
| | **PIPE CONNECTION** | **TYPE** | | | FLARE VALVE | |
| | | **SIZE** | **LIQUID** | **mm/in** | 6.35 / 1/4 | |
| | | | **GAS** | **mm/in** | 9.52 / 3/8 | 12.70 / 1/2 |
| | **REFRIGERANT CHARGE** | | | **kg/lb** | 0.63/ 1.393 | 0.6/ 1.327 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*
*3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :*
*COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR*
*4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.*

## General Data - Cooling Only (R22)

| | | | | | | |
|---|---|---|---|---|---|---|
| **MODEL** | | **INDOOR UNIT** | | | **MWM 020G** | **MWM 020G** |
| | | **OUTDOOR UNIT** | | | **MLC 018C** | **MLC 020C** |
| **NOMINAL CAPACITY** | | | | **Btu/h** | 18000 | 19000 |
| | | | | **W** | 5280 | 5570 |
| **NOMINAL TOTAL INPUT POWER** | | | | **W** | 1,810 | 1,807 |
| **NOMINAL RUNNING CURRENT** | | | | **A** | 8.1 | 8.0 |
| **POWER SOURCE** | | | | **V/Ph/Hz** | 220-240/1/50 | |
| **EER** | | | | **W/W** | 2.92 | 3.08 |
| **REFRIGERANT TYPE** | | | | | R22 | |
| **REFRIGERANT CONTROL (EXPANSION DEVICE)** | | | | | OUTDOOR CAP. TUBE | |
| **INDOOR UNIT** | **CONTROL** | **AIR DISCHARGE** | | | DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) | |
| | | **OPERATION** | | | LCD REMOTE CONTROL | |
| | **AIR FLOW** | | **HIGH** | **l/s / cfm** | 231 / 490 | |
| | | | **MEDIUM** | **l/s / cfm** | 193 / 410 | |
| | | | **LOW** | **l/s / cfm** | 160 / 340 | |
| | **SOUND PRESSURE LEVEL (H/M/L)** | | | **dBA** | 43 / 40 / 35 | |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 304 / 12.0 | |
| | | | **WIDTH** | **mm/in** | 1062 / 41.8 | |
| | | | **DEPTH** | **mm/in** | 222 / 8.7 | |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 378 / 14.9 | |
| | | | **WIDTH** | **mm/in** | 1130 / 44.5 | |
| | | | **DEPTH** | **mm/in** | 292 / 11.5 | |
| | **UNIT WEIGHT** | | | **kg/lb** | 16 / 35.27 | |
| | **CONDENSATE DRAIN SIZE** | | | **mm/in** | 20 / 0.79 | |
| **OUTDOOR UNIT** | **AIR FLOW** | | | **l/s / cfm** | 632 / 1340 | 614 / 1300 |
| | **SOUND PRESSURE LEVEL** | | | **dBA** | 51 | 52 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 651 / 25.6 | |
| | | | **WIDTH** | **mm/in** | 855 / 33.7 | |
| | | | **DEPTH** | **mm/in** | 328 / 12.9 | |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 710 / 28.0 | |
| | | | **WIDTH** | **mm/in** | 990 / 39.0 | |
| | | | **DEPTH** | **mm/in** | 415 / 16.3 | |
| | **UNIT WEIGHT** | | | **kg/lb** | 58 / 127.9 | 59 / 130.1 |
| | **PIPE CONNECTION** | **TYPE** | | | FLARE VALVE | |
| | | **SIZE** | **LIQUID** | **mm/in** | 6.35 / 1/4 | |
| | | | **GAS** | **mm/in** | 15.88 / 5/8 | |
| | **REFRIGERANT CHARGE** | | | **kg/lb** | 0.85 / 1.88 | 1.35 / 2.99 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*
*3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :*
*COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR*
*4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.*

## General Data - Cooling Only (R22)

| | | | | | | |
|---|---|---|---|---|---|---|
| **MODEL** | | **INDOOR UNIT** | | | **MWM 025G** | **MWM 030F** |
| | | **OUTDOOR UNIT** | | | **MLC 025C** | **MLC 028C** |
| **NOMINAL CAPACITY** | | | | **Btu/h** | 23,500 | 27000 |
| | | | | **W** | 6,890 | 7913 |
| **NOMINAL TOTAL INPUT POWER** | | | | **W** | 2,530 | 2732 |
| **NOMINAL RUNNING CURRENT** | | | | **A** | 11.3 | 13.1 |
| **POWER SOURCE** | | | | **V/Ph/Hz** | 220-240 /1/50 | |
| **EER** | | | | **W/W** | 2.72 | 2.89 |
| **REFRIGERANT TYPE** | | | | | R22 | |
| **REFRIGERANT CONTROL (EXPANSION DEVICE)** | | | | | OUTDOOR CAP. TUBE | |
| **INDOOR UNIT** | **CONTROL** | **AIR DISCHARGE** | | | DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) | AUTO LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) |
| | | **OPERATION** | | | LCD REMOTE CONTROL | |
| | **AIR FLOW** | | **HIGH** | **l/s / cfm** | 297 / 630 | 316 / 670 |
| | | | **MEDIUM** | **l/s / cfm** | 231 / 490 | 297 / 630 |
| | | | **LOW** | **l/s / cfm** | 208 / 440 | 236 / 500 |
| | **SOUND PRESSURE LEVEL (H/M/L)** | | | **dBA** | 49 / 44 / 42 | 49 / 47 / 45 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 304 / 12.0 | 360 / 14.2 |
| | | | **WIDTH** | **mm/in** | 1062 / 41.8 | 1200 / 47.2 |
| | | | **DEPTH** | **mm/in** | 222 / 8.7 | 200 / 7.9 |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 378 / 14.9 | 420 / 16.5 |
| | | | **WIDTH** | **mm/in** | 1130 / 44.5 | 1267 / 49.9 |
| | | | **DEPTH** | **mm/in** | 292 / 11.5 | 260 / 10.2 |
| | **UNIT WEIGHT** | | | **kg/lb** | 16 / 35.27 | 17 / 37.48 |
| | **CONDENSATE DRAIN SIZE** | | | **mm/in** | 20 / 0.79 | |
| **OUTDOOR UNIT** | **AIR FLOW** | | | **l/s / cfm** | 755 / 1600 | 632 / 1340 |
| | **SOUND PRESSURE LEVEL** | | | **dBA** | 52 | 54 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 750 / 29.5 | |
| | | | **WIDTH** | **mm/in** | 855 / 33.7 | |
| | | | **DEPTH** | **mm/in** | 328 / 12.9 | |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 810 / 31.9 | |
| | | | **WIDTH** | **mm/in** | 990 / 39.0 | |
| | | | **DEPTH** | **mm/in** | 415 / 16.3 | |
| | **UNIT WEIGHT** | | | **kg/lb** | 62 / 136.7 | 68 / 149.9 |
| | **PIPE CONNECTION** | **TYPE** | | | FLARE VALVE | |
| | | **SIZE** | **LIQUID** | **mm/in** | 9.52 / 3/8 | |
| | | | **GAS** | **mm/in** | 15.88 / 5/8 | |
| | **REFRIGERANT CHARGE** | | | **kg/lb** | 1.5 / 3.3 | 2.1 / 4.63 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*
*3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :*
*COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR*
*4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.*

## General Data - Heatpump Only (R22)

| | | | | | |
|---|---|---|---|---|---|
| **MODEL** | | **INDOOR UNIT** | | | **MWM 009GR** |
| | | **OUTDOOR UNIT** | | | **MLC 009CR** |
| **NOMINAL COOLING CAPACITY** | | | | **Btu/h** | 9000 |
| | | | | **W** | 2640 |
| **NOMINAL HEATING CAPACITY** | | | | **Btu/h** | 9000 |
| | | | | **W** | 2640 |
| **NOMINAL TOTAL INPUT POWER (COOLING)** | | | | **W** | 910 |
| **NOMINAL TOTAL INPUT POWER (HEATING)** | | | | **W** | 750 |
| **NOMINAL RUNNING CURRENT (COOLING)** | | | | **A** | 4.0 |
| **NOMINAL RUNNING CURRENT (HEATING)** | | | | **A** | 3.4 |
| **POWER SOURCE** | | | | **V/Ph/Hz** | 220-240/1/50 |
| **EER** | | | | **W/W** | 2.9 |
| **COP** | | | | **W/W** | 3.52 |
| **REFRIGERANT TYPE** | | | | | R22 |
| **REFRIGERANT CONTROL (EXPANSION DEVICE)** | | | | | OUTDOOR CAP. TUBE |
| **INDOOR UNIT** | **CONTROL** | **AIR DISCHARGE** | | | DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) |
| | | **OPERATION** | | | LCD REMOTE CONTROL |
| | **AIR FLOW** | | **HIGH** | **l/s / cfm** | 130 / 275 |
| | | | **MEDIUM** | **l/s / cfm** | 106 / 225 |
| | | | **LOW** | **l/s / cfm** | 83 / 175 |
| | **SOUND PRESSURE LEVEL (H/M/L)** | | | **dBA** | 40 / 35 / 29 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 260 / 10.2 |
| | | | **WIDTH** | **mm/in** | 799 / 31.5 |
| | | | **DEPTH** | **mm/in** | 198 / 7.8 |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 337 / 13.3 |
| | | | **WIDTH** | **mm/in** | 857 / 33.7 |
| | | | **DEPTH** | **mm/in** | 270 / 10.6 |
| | **UNIT WEIGHT** | | | **kg/lb** | 10/22.05 |
| | **CONDENSATE DRAIN SIZE** | | | **mm/in** | 16 / 0.63 |
| **OUTDOOR UNIT** | **AIR FLOW** | | | **l/s / cfm** | 307 / 650 |
| | **SOUND PRESSURE LEVEL** | | | **dBA** | 45 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 495/19.5 |
| | | | **WIDTH** | **mm/in** | 600/23.6 |
| | | | **DEPTH** | **mm/in** | 245/9.7 |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 575/22.6 |
| | | | **WIDTH** | **mm/in** | 715/28.1 |
| | | | **DEPTH** | **mm/in** | 330/13.0 |
| | **UNIT WEIGHT** | | | **kg/lb** | 28/61.73 |
| | **PIPE CONNECTION** | **TYPE** | | | FLARE VALVE |
| | | **SIZE** | **LIQUID** | **mm/in** | 6.35 / 1/4 |
| | | | **GAS** | **mm/in** | 9.52 / 3/8 |
| | **REFRIGERANT CHARGE** | | | **kg/lb** | 0.75/1.65 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*
*3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :*
*a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR*
*b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR*
*4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.*

## General Data - Heatpump (R22)

| | | | | | | |
|---|---|---|---|---|---|---|
| **MODEL** | | **INDOOR UNIT** | | | **MWM 010GR** | **MWM 015GR** |
| | | **OUTDOOR UNIT** | | | **MLC 010CR** | **MLC 015CR** |
| **NOMINAL COOLING CAPACITY** | | | | **Btu/h** | 9500 | 12000 |
| | | | | **W** | 2780 | 3520 |
| **NOMINAL HEATING CAPACITY** | | | | **Btu/h** | 9500 | 12000 |
| | | | | **W** | 2780 | 3520 |
| **NOMINAL TOTAL INPUT POWER (COOLING)** | | | | **W** | 837 | 1100 |
| **NOMINAL TOTAL INPUT POWER (HEATING)** | | | | **W** | 757 | 980 |
| **NOMINAL RUNNING CURRENT (COOLING)** | | | | **A** | 3.8 | 5.0 |
| **NOMINAL RUNNING CURRENT (HEATING)** | | | | **A** | 3.4 | 4.5 |
| **POWER SOURCE** | | | | **V/Ph/Hz** | 220-240/1/50 | |
| **EER** | | | | **W/W** | 3.32 | 3.2 |
| **COP** | | | | **W/W** | 3.67 | 3.59 |
| **REFRIGERANT TYPE** | | | | | R22 | |
| **REFRIGERANT CONTROL (EXPANSION DEVICE)** | | | | | OUTDOOR CAP. TUBE | |
| **INDOOR UNIT** | **CONTROL** | **AIR DISCHARGE** | | | DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) | |
| | | **OPERATION** | | | LCD REMOTE CONTROL | |
| | **AIR FLOW** | | **HIGH** | **l/s / cfm** | 142 / 300 | 163 / 345 |
| | | | **MEDIUM** | **l/s / cfm** | 118 / 250 | 135 / 285 |
| | | | **LOW** | **l/s / cfm** | 94 / 200 | 104 / 220 |
| | **SOUND PRESSURE LEVEL (H/M/L)** | | | **dBA** | 39 / 34 / 28 | 42 / 36 / 29 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 260 / 10.2 | |
| | | | **WIDTH** | **mm/in** | 899 / 35.4 | |
| | | | **DEPTH** | **mm/in** | 198 / 7.8 | |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 337 / 13.3 | |
| | | | **WIDTH** | **mm/in** | 957 / 37.7 | |
| | | | **DEPTH** | **mm/in** | 270 / 10.6 | |
| | **UNIT WEIGHT** | | | **kg/lb** | 12/26.46 | |
| | **CONDENSATE DRAIN SIZE** | | | **mm/in** | 16 / 0.63 | |
| **OUTDOOR UNIT** | **AIR FLOW** | | | **l/s / cfm** | 396 / 840 | 453 / 960 |
| | **SOUND PRESSURE LEVEL** | | | **dBA** | 46 | 49 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 540/21.3 | |
| | | | **WIDTH** | **mm/in** | 700/27.6 | |
| | | | **DEPTH** | **mm/in** | 250/9.8 | |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 620/24.4 | |
| | | | **WIDTH** | **mm/in** | 810/31.9 | |
| | | | **DEPTH** | **mm/in** | 330/13.0 | |
| | **UNIT WEIGHT** | | | **kg/lb** | 32/70.55 | |
| | **PIPE CONNECTION** | **TYPE** | | | FLARE VALVE | |
| | | **SIZE** | **LIQUID** | **mm/in** | 6.35 / 1/4 | |
| | | | **GAS** | **mm/in** | 9.52 / 3/8 | 12.70 / 1/2 |
| | **REFRIGERANT CHARGE** | | | **kg/lb** | 0.88/1.94 | 0.8/1.76 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*
*3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :*
*a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR*
*b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR*
*4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.*

## General Data - Heatpump (R22)

| | | | | | | |
|---|---|---|---|---|---|---|
| **MODEL** | | **INDOOR UNIT** | | | **MWM 020GR** | **MWM 020GR** |
| | | **OUTDOOR UNIT** | | | **MLC 018CR** | **MLC 020CR** |
| **NOMINAL COOLING CAPACITY** | | | | **Btu/h** | 18000 | 19000 |
| | | | | **W** | 5280 | 5570 |
| **NOMINAL HEATING CAPACITY** | | | | **Btu/h** | 18400 | 19500 |
| | | | | **W** | 5390 | 5720 |
| **NOMINAL TOTAL INPUT POWER (COOLING)** | | | | **W** | 1,820 | 1,807 |
| **NOMINAL TOTAL INPUT POWER (HEATING)** | | | | **W** | 1,660 | 1,757 |
| **NOMINAL RUNNING CURRENT (COOLING)** | | | | **A** | 8.1 | 8.0 |
| **NOMINAL RUNNING CURRENT (HEATING)** | | | | **A** | 7.4 | 7.8 |
| **POWER SOURCE** | | | | **V/Ph/Hz** | 220-240/1/50 | |
| **EER** | | | | **W/W** | 2.9 | 3.08 |
| **COP** | | | | **W/W** | 3.25 | 3.26 |
| **REFRIGERANT TYPE** | | | | | R22 | |
| **REFRIGERANT CONTROL (EXPANSION DEVICE)** | | | | | OUTDOOR CAP. TUBE | |
| **INDOOR UNIT** | **CONTROL** | **AIR DISCHARGE** | | | DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) | |
| | | **OPERATION** | | | LCD REMOTE CONTROL | |
| | **AIR FLOW** | | **HIGH** | **l/s / cfm** | 231 / 490 | |
| | | | **MEDIUM** | **l/s / cfm** | 193 / 410 | |
| | | | **LOW** | **l/s / cfm** | 160 / 340 | |
| | **SOUND PRESSURE LEVEL (H/M/L)** | | | **dBA** | 43 / 40 / 35 | |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 304 / 12.0 | |
| | | | **WIDTH** | **mm/in** | 1062 / 41.8 | |
| | | | **DEPTH** | **mm/in** | 222 / 8.7 | |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 378 / 14.9 | |
| | | | **WIDTH** | **mm/in** | 1130 / 44.5 | |
| | | | **DEPTH** | **mm/in** | 292 / 11.5 | |
| | **UNIT WEIGHT** | | | **kg/lb** | 16 / 35.27 | |
| | **CONDENSATE DRAIN SIZE** | | | **mm/in** | 20 / 0.79 | |
| **OUTDOOR UNIT** | **AIR FLOW** | | | **l/s / cfm** | 632 / 1340 | 614 / 1300 |
| | **SOUND PRESSURE LEVEL** | | | **dBA** | 51 | 52 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 651 / 25.6 | |
| | | | **WIDTH** | **mm/in** | 855 / 33.7 | |
| | | | **DEPTH** | **mm/in** | 328 / 12.9 | |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 710 / 28.0 | |
| | | | **WIDTH** | **mm/in** | 990 / 39.0 | |
| | | | **DEPTH** | **mm/in** | 415 / 16.3 | |
| | **UNIT WEIGHT** | | | **kg/lb** | 58 / 127.9 | 59 / 130.1 |
| | **PIPE CONNECTION** | **TYPE** | | | FLARE VALVE | |
| | | **SIZE** | **LIQUID** | **mm/in** | 6.35 / 1/4 | |
| | | | **GAS** | **mm/in** | 15.88 / 5/8 | |
| | **REFRIGERANT CHARGE** | | | **kg/lb** | 0.85 / 1.88 | 1.35 / 2.99 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*
*3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :*
*a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR*
*b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR*
*4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.*

## General Data - Heatpump (R22)

| | | | | | | |
|---|---|---|---|---|---|---|
| **MODEL** | | **INDOOR UNIT** | | | **MWM 025GR** | **MWM 030FR** |
| | | **OUTDOOR UNIT** | | | **MLC 025CR** | **MLC 028CR** |
| **NOMINAL COOLING CAPACITY** | | | | **Btu/h** | 23,500 | 27000 |
| | | | | **W** | 6,890 | 7913 |
| **NOMINAL HEATING CAPACITY** | | | | **Btu/h** | 24,000 | 27000 |
| | | | | **W** | 7,030 | 7913 |
| **NOMINAL TOTAL INPUT POWER (COOLING)** | | | | **W** | 2,530 | 2778 |
| **NOMINAL TOTAL INPUT POWER (HEATING)** | | | | **W** | 2,450 | 2818 |
| **NOMINAL RUNNING CURRENT (COOLING)** | | | | **A** | 11.3 | 13.2 |
| **NOMINAL RUNNING CURRENT (HEATING)** | | | | **A** | 11.1 | 13.3 |
| **POWER SOURCE** | | | | **V/Ph/Hz** | 220-240/1/50 | |
| **EER** | | | | **W/W** | 2.72 | 2.85 |
| **COP** | | | | **W/W** | 2.87 | 2.81 |
| **REFRIGERANT TYPE** | | | | | R22 | |
| **REFRIGERANT CONTROL (EXPANSION DEVICE)** | | | | | OUTDOOR CAP. TUBE | |
| **INDOOR UNIT** | **CONTROL** | **AIR DISCHARGE** | | | DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) | |
| | | **OPERATION** | | | LCD REMOTE CONTROL | |
| | **AIR FLOW** | | **HIGH** | **l/s / cfm** | 297 / 630 | 316 / 670 |
| | | | **MEDIUM** | **l/s / cfm** | 231 / 490 | 297 / 630 |
| | | | **LOW** | **l/s / cfm** | 208 / 440 | 236 / 500 |
| | **SOUND PRESSURE LEVEL (H/M/L)** | | | **dBA** | 49 / 44 / 42 | 49 / 47 / 45 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 304 / 12.0 | 360 / 14.2 |
| | | | **WIDTH** | **mm/in** | 1062 / 41.8 | 1200 / 47.2 |
| | | | **DEPTH** | **mm/in** | 222 / 8.7 | 200 / 7.9 |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 378 / 14.9 | 420 / 16.5 |
| | | | **WIDTH** | **mm/in** | 1130 / 44.5 | 1267 / 49.9 |
| | | | **DEPTH** | **mm/in** | 292 / 11.5 | 260 / 10.2 |
| | **UNIT WEIGHT** | | | **kg/lb** | 16 / 35.27 | 17 / 37.48 |
| | **CONDENSATE DRAIN SIZE** | | | **mm/in** | 20 / 0.79 | |
| **OUTDOOR UNIT** | **AIR FLOW** | | | **l/s / cfm** | 755 / 1600 | 632 / 1340 |
| | **SOUND PRESSURE LEVEL** | | | **dBA** | 52 | 54 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 750 / 29.5 | |
| | | | **WIDTH** | **mm/in** | 855 / 33.7 | |
| | | | **DEPTH** | **mm/in** | 328 / 12.9 | |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 810 / 31.9 | |
| | | | **WIDTH** | **mm/in** | 990 / 39.0 | |
| | | | **DEPTH** | **mm/in** | 415 / 16.3 | |
| | **UNIT WEIGHT** | | | **kg/lb** | 62 / 136.7 | 68 / 149.9 |
| | **PIPE CONNECTION** | **TYPE** | | | FLARE VALVE | FLARE VALVE |
| | | **SIZE** | **LIQUID** | **mm/in** | 9.52 / 3/8 | |
| | | | **GAS** | **mm/in** | 15.88 / 5/8 | |
| | **REFRIGERANT CHARGE** | | | **kg/lb** | 1.5 / 3.3 | 2.1 / 4.63 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*
*3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :*
*a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR*
*b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR*
*4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.*

## General Data - Cooling Only (R410A)

| MODEL | | INDOOR UNIT | | | M5WM 007G | M5WM 009G |
|---|---|---|---|---|---|---|
| | | OUTDOOR UNIT | | | M5LC 007C | M5LC 010C |
| NOMINAL CAPACITY | | | | Btu/h | 7500 | 9000 |
| | | | | W | 2200 | 2640 |
| NOMINAL TOTAL INPUT POWER | | | | W | 620 | 865 |
| NOMINAL RUNNING CURRENT | | | | A | 2.9 | 3.9 |
| POWER SOURCE | | | | V/Ph/Hz | 220-240/1/50 | |
| EER | | | | W/W | 3.54 | 3.05 |
| REFRIGERANT TYPE | | | | | R410A | |
| REFRIGERANT CONTROL (EXPANSION DEVICE) | | | | | OUTDOOR CAP. TUBE | |
| INDOOR UNIT | CONTROL | AIR DISCHARGE | | | DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) | |
| | | OPERATION | | | LCD REMOTE CONTROL | |
| | AIR FLOW | | HIGH | l/s / cfm | 130 / 275 | |
| | | | MEDIUM | l/s / cfm | 106 / 225 | |
| | | | LOW | l/s / cfm | 83 / 175 | |
| | SOUND PRESSURE LEVEL (H/M/L) | | | dBA | 40 / 35 / 29 | |
| | UNIT DIMENSION | | HEIGHT | mm/in | 260 / 10.2 | |
| | | | WIDTH | mm/in | 799 / 31.5 | |
| | | | DEPTH | mm/in | 198 / 7.8 | |
| | PACKING DIMENSION | | HEIGHT | mm/in | 337 / 13.3 | |
| | | | WIDTH | mm/in | 857 / 33.7 | |
| | | | DEPTH | mm/in | 270 / 10.6 | |
| | UNIT WEIGHT | | | kg/lb | 10/22.05 | |
| | CONDENSATE DRAIN SIZE | | | mm/in | 16 / 0.63 | |
| OUTDOOR UNIT | AIR FLOW | | | l/s / cfm | 307 / 650 | 396 / 840 |
| | SOUND PRESSURE LEVEL | | | dBA | 44 | 46 |
| | UNIT DIMENSION | | HEIGHT | mm/in | 495/19.5 | 540/21.3 |
| | | | WIDTH | mm/in | 600/23.6 | 700/27.6 |
| | | | DEPTH | mm/in | 245/9.7 | 250/9.8 |
| | PACKING DIMENSION | | HEIGHT | mm/in | 575/22.6 | 620/24.4 |
| | | | WIDTH | mm/in | 715/28.1 | 810/31.9 |
| | | | DEPTH | mm/in | 330/13.0 | 330/13.0 |
| | UNIT WEIGHT | | | kg/lb | 26/57.32 | 33/72.75 |
| | PIPE CONNECTION | TYPE | | | FLARE VALVE | |
| | | SIZE | LIQUID | mm/in | 6.35 / 1/4 | |
| | | | GAS | mm/in | 9.52 / 3/8 | |
| | REFRIGERANT CHARGE | | | kg/lb | 0.6/1.32 | 0.69/1.52 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*
*3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :*
*COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR*
*4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.*

## General Data - Cooling Only (R410A)

| | | | | | | |
|---|---|---|---|---|---|---|
| **MODEL** | | **INDOOR UNIT** | | | **M5WM 010G** | **M5WM 015G** |
| | | **OUTDOOR UNIT** | | | **M5LC 010C** | **M5LC 015C** |
| **NOMINAL CAPACITY** | | | | **Btu/h** | 9500 | 12000 |
| | | | | **W** | 2780 | 3520 |
| **NOMINAL TOTAL INPUT POWER** | | | | **W** | 867 | 1230 |
| **NOMINAL RUNNING CURRENT** | | | | **A** | 3.9 | 5.5 |
| **POWER SOURCE** | | | | **V/Ph/Hz** | 220-240/1/50 | |
| **EER** | | | | **W/W** | 3.21 | 2.86 |
| **REFRIGERANT TYPE** | | | | | R410A | |
| **REFRIGERANT CONTROL (EXPANSION DEVICE)** | | | | | OUTDOOR CAP. TUBE | |
| **INDOOR UNIT** | **CONTROL** | **AIR DISCHARGE** | | | DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) | |
| | | **OPERATION** | | | LCD REMOTE CONTROL | |
| | **AIR FLOW** | | **HIGH** | **l/s / cfm** | 142 / 300 | 163 / 345 |
| | | | **MEDIUM** | **l/s / cfm** | 118 / 250 | 135 / 285 |
| | | | **LOW** | **l/s / cfm** | 94 / 200 | 104 / 220 |
| | **SOUND PRESSURE LEVEL (H/M/L)** | | | **dBA** | 39 / 34 / 28 | 42 / 36 / 29 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 260 / 10.2 | |
| | | | **WIDTH** | **mm/in** | 899 / 35.4 | |
| | | | **DEPTH** | **mm/in** | 198 / 7.8 | |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 337 / 13.3 | |
| | | | **WIDTH** | **mm/in** | 957 / 37.7 | |
| | | | **DEPTH** | **mm/in** | 270 / 10.6 | |
| | **UNIT WEIGHT** | | | **kg/lb** | 12/26.46 | |
| | **CONDENSATE DRAIN SIZE** | | | **mm/in** | 16 / 0.63 | |
| **OUTDOOR UNIT** | **AIR FLOW** | | | **l/s / cfm** | 396 / 840 | 453 / 960 |
| | **SOUND PRESSURE LEVEL** | | | **dBA** | 46 | 49 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 540/21.3 | |
| | | | **WIDTH** | **mm/in** | 700/27.6 | |
| | | | **DEPTH** | **mm/in** | 250/9.8 | |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 620/24.4 | |
| | | | **WIDTH** | **mm/in** | 810/31.9 | |
| | | | **DEPTH** | **mm/in** | 330/13.0 | |
| | **UNIT WEIGHT** | | | **kg/lb** | 33/72.75 | |
| | **PIPE CONNECTION** | **TYPE** | | | FLARE VALVE | |
| | | **SIZE** | **LIQUID** | **mm/in** | 6.35 / 1/4 | |
| | | | **GAS** | **mm/in** | 9.52 / 3/8 | 12.70 / 1/2 |
| | **REFRIGERANT CHARGE** | | | **kg/lb** | 0.69/1.52 | 0.8/1.76 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*
*3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :*
*COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR*
*4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.*

## General Data - Cooling Only (R410A)

| | | | | | | |
|---|---|---|---|---|---|---|
| **MODEL** | | **INDOOR UNIT** | | | **M5WM 020G** | **M5WM 025G** |
| | | **OUTDOOR UNIT** | | | **M5LC 020C** | **M5LC 025C** |
| **NOMINAL CAPACITY - 1Ø / <3Ø>** | | | | **Btu/h** | 18000 / <18000> | 21000 / <22500> |
| | | | | **W** | 5280 / <5280> | 6155 / <6590> |
| **NOMINAL TOTAL INPUT POWER - 1Ø / <3Ø>** | | | | **W** | 1652 / <1663> | 1915 / <2195> |
| **NOMINAL RUNNING CURRENT - 1Ø / <3Ø>** | | | | **A** | 7.3 / <3.2> | 8.4 / <4.2> |
| **POWER SOURCE** | | | | **V/Ph/Hz** | 220-240/ 1/ 50 / <380-415/ 3/ 50> | |
| **EER - 1Ø / <3Ø>** | | | | **W/W** | 3.2 / <3.17> | 3.21 / <3> |
| **REFRIGERANT TYPE** | | | | | R410A | |
| **REFRIGERANT CONTROL (EXPANSION DEVICE)** | | | | | OUTDOOR CAP. TUBE | |
| **INDOOR UNIT** | **CONTROL** | **AIR DISCHARGE** | | | DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) | |
| | | **OPERATION** | | | LCD REMOTE CONTROL | |
| | **AIR FLOW** | | **HIGH** | **l/s / cfm** | 231 / 490 | 397 / 630 |
| | | | **MEDIUM** | **l/s / cfm** | 193 / 410 | 231 / 490 |
| | | | **LOW** | **l/s / cfm** | 160 / 340 | 208 / 440 |
| | **SOUND PRESSURE LEVEL (H/M/L)** | | | **dBA** | 43 / 40 / 35 | 49 / 44 / 42 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 304 / 12.0 | |
| | | | **WIDTH** | **mm/in** | 1062 / 41.8 | |
| | | | **DEPTH** | **mm/in** | 222 / 8.7 | |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 378 / 14.9 | |
| | | | **WIDTH** | **mm/in** | 1130 / 44.5 | |
| | | | **DEPTH** | **mm/in** | 292 / 11.5 | |
| | **UNIT WEIGHT** | | | **kg/lb** | 16 / 35.27 | |
| | **CONDENSATE DRAIN SIZE** | | | **mm/in** | 20 / 0.79 | |
| **OUTDOOR UNIT** | **AIR FLOW** | | | **l/s / cfm** | 614 / 1300 | 689 / 1460 |
| | **SOUND PRESSURE LEVEL** | | | **dBA** | 52 | |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 651 / 25.6 | 750 / 29.5 |
| | | | **WIDTH** | **mm/in** | 855 / 33.7 | 855 / 33.7 |
| | | | **DEPTH** | **mm/in** | 328 / 12.9 | 328 / 12.9 |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 710 / 28.0 | 810 / 31.9 |
| | | | **WIDTH** | **mm/in** | 990 / 39.0 | 990 / 39.0 |
| | | | **DEPTH** | **mm/in** | 415 / 16.3 | 415 / 16.3 |
| | **UNIT WEIGHT** | | | **kg/lb** | 59 / 130.1 | 62 / 136.7 |
| | **PIPE CONNECTION** | **TYPE** | | | FLARE VALVE | |
| | | **SIZE** | **LIQUID** | **mm/in** | 6.35 / 1/4 | |
| | | | **GAS** | **mm/in** | 12.70 / 1/2 | 15.88 / 5/8 |
| | **REFRIGERANT CHARGE** | | | **kg/lb** | 1.375 / 3.03 | 1.54 / 3.4 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*
*3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :*
*COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR*
*4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.*

## General Data - Cooling Only (R410A)

| | | | | | |
|---|---|---|---|---|---|
| **MODEL** | | **INDOOR UNIT** | | | **M5WM 031F** |
| | | **OUTDOOR UNIT** | | | **M5LC 028C** |
| **NOMINAL CAPACITY - 1Ø / <3Ø>** | | | | **Btu/h** | 26000 / <26000> |
| | | | | **W** | 7620 / <7620> |
| **NOMINAL TOTAL INPUT POWER - 1Ø / <3Ø>** | | | | **W** | 2560 / <2631> |
| **NOMINAL RUNNING CURRENT - 1Ø / <3Ø>** | | | | **A** | 12.2 / <4.6> |
| **POWER SOURCE** | | | | **V/Ph/Hz** | 220-240/ 1/ 50 / <380-415/ 3/ 50> |
| **EER - 1Ø / <3Ø>** | | | | **W/W** | 2.98 / <2.89> |
| **REFRIGERANT TYPE** | | | | | R410A |
| **REFRIGERANT CONTROL (EXPANSION DEVICE)** | | | | | OUTDOOR CAP. TUBE |
| **INDOOR UNIT** | **CONTROL** | **AIR DISCHARGE** | | | AUTO LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) |
| | | **OPERATION** | | | LCD REMOTE CONTROL |
| | **AIR FLOW** | | **HIGH** | **l/s / cfm** | 316 / 670 |
| | | | **MEDIUM** | **l/s / cfm** | 297 / 630 |
| | | | **LOW** | **l/s / cfm** | 236 / 500 |
| | **SOUND PRESSURE LEVEL (H/M/L)** | | | **dBA** | 49 / 47 / 45 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 360 / 14.2 |
| | | | **WIDTH** | **mm/in** | 1200 / 47.2 |
| | | | **DEPTH** | **mm/in** | 200 / 7.9 |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 420 / 16.5 |
| | | | **WIDTH** | **mm/in** | 1267 / 49.9 |
| | | | **DEPTH** | **mm/in** | 260 / 10.2 |
| | **UNIT WEIGHT** | | | **kg/lb** | 17 / 37.48 |
| | **CONDENSATE DRAIN SIZE** | | | **mm/in** | 20 / 0.79 |
| **OUTDOOR UNIT** | **AIR FLOW** | | | **l/s / cfm** | 632 / 1340 |
| | **SOUND PRESSURE LEVEL** | | | **dBA** | 54 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 750 / 29.5 |
| | | | **WIDTH** | **mm/in** | 855 / 33.7 |
| | | | **DEPTH** | **mm/in** | 328 / 12.9 |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 810 / 31.9 |
| | | | **WIDTH** | **mm/in** | 990 / 39.0 |
| | | | **DEPTH** | **mm/in** | 415 / 16.3 |
| | **UNIT WEIGHT** | | | **kg/lb** | 68 / 149.9 |
| | **PIPE CONNECTION** | **TYPE** | | | FLARE VALVE |
| | | **SIZE** | **LIQUID** | **mm/in** | 9.52 / 3/8 |
| | | | **GAS** | **mm/in** | 15.88 / 5/8 |
| | **REFRIGERANT CHARGE** | | | **kg/lb** | 1.75 / 3.86 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*
*3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :*
*COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR*
*4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.*

## General Data - Heatpump (R410A)

| | | | | | | |
|---|---|---|---|---|---|---|
| **MODEL** | | **INDOOR UNIT** | | | **M5WM 007GR** | **M5WM 009GR** |
| | | **OUTDOOR UNIT** | | | **M5LC 007CR** | **M5LC 010CR** |
| **NOMINAL COOLING CAPACITY** | | | | **Btu/h** | 7500 | 9000 |
| | | | | **W** | 2200 | 2640 |
| **NOMINAL HEATING CAPACITY** | | | | **Btu/h** | 7500 | 9000 |
| | | | | **W** | 2200 | 2640 |
| **NOMINAL TOTAL INPUT POWER (COOLING)** | | | | **W** | 680 | 860 |
| **NOMINAL TOTAL INPUT POWER (HEATING)** | | | | **W** | 550 | 745 |
| **NOMINAL RUNNING CURRENT (COOLING)** | | | | **A** | 3.1 | 3.9 |
| **NOMINAL RUNNING CURRENT (HEATING)** | | | | **A** | 2.6 | 3.4 |
| **POWER SOURCE** | | | | **V/Ph/Hz** | 220-240/1/50 | |
| **EER** | | | | **W/W** | 3.24 | 3.07 |
| **COP** | | | | **W/W** | 4 | 3.54 |
| **REFRIGERANT TYPE** | | | | | R410A | |
| **REFRIGERANT CONTROL (EXPANSION DEVICE)** | | | | | OUTDOOR CAP. TUBE | |
| **INDOOR UNIT** | **CONTROL** | **AIR DISCHARGE** | | | DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) | |
| | | **OPERATION** | | | LCD REMOTE CONTROL | |
| | **AIR FLOW** | | **HIGH** | **l/s / cfm** | 130 / 275 | |
| | | | **MEDIUM** | **l/s / cfm** | 106 / 225 | |
| | | | **LOW** | **l/s / cfm** | 83 / 175 | |
| | **SOUND PRESSURE LEVEL (H/M/L)** | | | **dBA** | 40 / 35 / 29 | |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 260 / 10.2 | |
| | | | **WIDTH** | **mm/in** | 799 / 31.5 | |
| | | | **DEPTH** | **mm/in** | 198 / 7.8 | |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 337 / 13.3 | |
| | | | **WIDTH** | **mm/in** | 857 / 33.7 | |
| | | | **DEPTH** | **mm/in** | 270 / 10.6 | |
| | **UNIT WEIGHT** | | | **kg/lb** | 10/22.05 | |
| | **CONDENSATE DRAIN SIZE** | | | **mm/in** | 16 / 0.63 | |
| **OUTDOOR UNIT** | **AIR FLOW** | | | **l/s / cfm** | 307 / 650 | 396 / 840 |
| | **SOUND PRESSURE LEVEL** | | | **dBA** | 44 | 46 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 495/19.5 | 540/21.3 |
| | | | **WIDTH** | **mm/in** | 600/23.6 | 700/27.6 |
| | | | **DEPTH** | **mm/in** | 245/9.7 | 250/9.8 |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 575/22.6 | 620/24.4 |
| | | | **WIDTH** | **mm/in** | 715/28.1 | 810/31.9 |
| | | | **DEPTH** | **mm/in** | 330/13.0 | 330/13.0 |
| | **UNIT WEIGHT** | | | **kg/lb** | 26/57.32 | 33/72.75 |
| | **PIPE CONNECTION** | **TYPE** | | | FLARE VALVE | |
| | | **SIZE** | **LIQUID** | **mm/in** | 6.35 / 1/4 | |
| | | | **GAS** | **mm/in** | 9.52 / 3/8 | |
| | **REFRIGERANT CHARGE** | | | **kg/lb** | 0.8/1.76 | 0.73/1.61 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*
*3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :*
*a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR*
*b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR*
*4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.*

## General Data - Heatpump (R410A)

| | | | | | | |
|---|---|---|---|---|---|---|
| **MODEL** | | **INDOOR UNIT** | | | **M5WM 010GR** | **M5WM 015GR** |
| | | **OUTDOOR UNIT** | | | **M5LC 010CR** | **M5LC 015CR** |
| **NOMINAL COOLING CAPACITY** | | | | **Btu/h** | 9500 | 12000 |
| | | | | **W** | 2780 | 3520 |
| **NOMINAL HEATING CAPACITY** | | | | **Btu/h** | 9500 | 12000 |
| | | | | **W** | 2780 | 3520 |
| **NOMINAL TOTAL INPUT POWER (COOLING)** | | | | **W** | 867 | 1230 |
| **NOMINAL TOTAL INPUT POWER (HEATING)** | | | | **W** | 747 | 1080 |
| **NOMINAL RUNNING CURRENT (COOLING)** | | | | **A** | 3.9 | 5.4 |
| **NOMINAL RUNNING CURRENT (HEATING)** | | | | **A** | 3.4 | 4.9 |
| **POWER SOURCE** | | | | **V/Ph/Hz** | 220-240/1/50 | |
| **EER** | | | | **W/W** | 3.21 | 2.86 |
| **COP** | | | | **W/W** | 3.72 | 3.26 |
| **REFRIGERANT TYPE** | | | | | R410A | |
| **REFRIGERANT CONTROL (EXPANSION DEVICE)** | | | | | OUTDOOR CAP. TUBE | |
| **INDOOR UNIT** | **CONTROL** | **AIR DISCHARGE** | | | DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) | |
| | | **OPERATION** | | | LCD REMOTE CONTROL | |
| | **AIR FLOW** | | **HIGH** | **l/s / cfm** | 142 / 300 | 163 / 345 |
| | | | **MEDIUM** | **l/s / cfm** | 118 / 250 | 135 / 285 |
| | | | **LOW** | **l/s / cfm** | 94 / 200 | 104 / 220 |
| | **SOUND PRESSURE LEVEL (H/M/L)** | | | **dBA** | 39 / 34 / 28 | 42 / 36 / 29 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 260 / 10.2 | |
| | | | **WIDTH** | **mm/in** | 899 / 35.4 | |
| | | | **DEPTH** | **mm/in** | 198 / 7.8 | |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 337 / 13.3 | |
| | | | **WIDTH** | **mm/in** | 957 / 37.7 | |
| | | | **DEPTH** | **mm/in** | 270 / 10.6 | |
| | **UNIT WEIGHT** | | | **kg/lb** | 12/26.46 | |
| | **CONDENSATE DRAIN SIZE** | | | **mm/in** | 16 / 0.63 | |
| **OUTDOOR UNIT** | **AIR FLOW** | | | **l/s / cfm** | 396 / 840 | 453 / 960 |
| | **SOUND PRESSURE LEVEL** | | | **dBA** | 46 | 49 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 540/21.3 | |
| | | | **WIDTH** | **mm/in** | 700/27.6 | |
| | | | **DEPTH** | **mm/in** | 250/9.8 | |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 620/24.4 | |
| | | | **WIDTH** | **mm/in** | 810/31.9 | |
| | | | **DEPTH** | **mm/in** | 330/13.0 | |
| | **UNIT WEIGHT** | | | **kg/lb** | 32/70.55 | |
| | **PIPE CONNECTION** | **TYPE** | | | FLARE VALVE | |
| | | **SIZE** | **LIQUID** | **mm/in** | 6.35 / 1/4 | |
| | | | **GAS** | **mm/in** | 9.52 / 3/8 | 12.70 / 1/2 |
| | **REFRIGERANT CHARGE** | | | **kg/lb** | 0.73/1.61 | 0.825/ 1.82 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*
*3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :*
*a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR*
*b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR*
*4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.*

## General Data - Heatpump (R410A)

| | | | | | | |
|---|---|---|---|---|---|---|
| **MODEL** | | **INDOOR UNIT** | | | **M5WM 020GR** | **M5WM 025GR** |
| | | **OUTDOOR UNIT** | | | **M5LC 020CR** | **M5LC 025CR** |
| **NOMINAL COOLING CAPACITY - 1Ø / <3Ø>** | | | | **Btu/h** | 17850 / <18000> | 20350 / <22500> |
| | | | | **W** | 5230 / <5280> | 5960 / <6590> |
| **NOMINAL HEATING CAPACITY - 1Ø / <3Ø>** | | | | **Btu/h** | 18000 / <18500> | 22000 / <23000> |
| | | | | **W** | 5280 / <5420> | 6450 / <6740> |
| **NOMINAL TOTAL INPUT POWER (COOLING) - 1Ø / <3Ø>** | | | | **W** | 1630 / <1663> | 1860 / <2195> |
| **NOMINAL TOTAL INPUT POWER (HEATING) - 1Ø / <3Ø>** | | | | **W** | 1546 / <1630> | 1870 / <2106> |
| **NOMINAL RUNNING CURRENT (COOLING) - 1Ø / <3Ø>** | | | | **A** | 7.2 / <3.2> | 8.4 / <4.2> |
| **NOMINAL RUNNING CURRENT (HEATING) - 1Ø / <3Ø>** | | | | **A** | 6.8 / <3.1> | 8.4 / <4.2> |
| **POWER SOURCE** | | | | **V/Ph/Hz** | 220-240/ 1/ 50 / <380-415/ 3/ 50> | |
| **EER - 1Ø / <3Ø>** | | | | **W/W** | 3.21 / <3.17> | 3.2 / <3> |
| **COP - 1Ø / <3Ø>** | | | | **W/W** | 3.41 / <3.33> | 3.45 / <3.2> |
| **REFRIGERANT TYPE** | | | | | R410A | |
| **REFRIGERANT CONTROL (EXPANSION DEVICE)** | | | | | OUTDOOR CAP. TUBE | |
| **INDOOR UNIT** | **CONTROL** | **AIR DISCHARGE** | | | DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) | |
| | | **OPERATION** | | | LCD REMOTE CONTROL | |
| | **AIR FLOW** | | **HIGH** | **l/s / cfm** | 231 / 490 | 397 / 630 |
| | | | **MEDIUM** | **l/s / cfm** | 193 / 410 | 231 / 490 |
| | | | **LOW** | **l/s / cfm** | 160 / 340 | 208 / 440 |
| | **SOUND PRESSURE LEVEL (H/M/L)** | | | **dBA** | 43 / 40 / 35 | 49 / 44 / 42 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 304 / 12.0 | |
| | | | **WIDTH** | **mm/in** | 1062 / 41.8 | |
| | | | **DEPTH** | **mm/in** | 222 / 8.7 | |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 378 / 14.9 | |
| | | | **WIDTH** | **mm/in** | 1130 / 44.5 | |
| | | | **DEPTH** | **mm/in** | 292 / 11.5 | |
| | **UNIT WEIGHT** | | | **kg/lb** | 16 / 35.27 | |
| | **CONDENSATE DRAIN SIZE** | | | **mm/in** | 20 / 0.79 | |
| **OUTDOOR UNIT** | **AIR FLOW** | | | **l/s / cfm** | 614 / 1300 | 689 / 1460 |
| | **SOUND PRESSURE LEVEL** | | | **dBA** | 52 | |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 651 / 25.6 | 750 / 29.5 |
| | | | **WIDTH** | **mm/in** | 855 / 33.7 | 855 / 33.7 |
| | | | **DEPTH** | **mm/in** | 328 / 12.9 | 328 / 12.9 |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 710 / 28.0 | 810 / 31.9 |
| | | | **WIDTH** | **mm/in** | 990 / 39.0 | 990 / 39.0 |
| | | | **DEPTH** | **mm/in** | 415 / 16.3 | 415 / 16.3 |
| | **UNIT WEIGHT** | | | **kg/lb** | 59 / 130.1 | 62 / 136.7 |
| | **PIPE CONNECTION** | **TYPE** | | | FLARE VALVE | |
| | | **SIZE** | **LIQUID** | **mm/in** | 6.35 / 1/4 | |
| | | | **GAS** | **mm/in** | 12.70 / 1/2 | 15.88 / 5/8 |
| | **REFRIGERANT CHARGE** | | | **kg/lb** | 1.375 / 3.03 | 1.54 / 3.40 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*
*3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :*
*a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR*
*b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR*
*4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.*

## General Data - Heatpump (R410A)

| | | | | | |
|---|---|---|---|---|---|
| **MODEL** | | **INDOOR UNIT** | | | **M5WM 030FR** |
| | | **OUTDOOR UNIT** | | | **M5LC 028CR** |
| **NOMINAL COOLING CAPACITY - 1Ø / <3Ø>** | | | | **Btu/h** | 26000 / <26000> |
| | | | | **W** | 7620 / <7620> |
| **NOMINAL HEATING CAPACITY - 1Ø / <3Ø>** | | | | **Btu/h** | 26000 / <26000> |
| | | | | **W** | 7620 / <7620> |
| **NOMINAL TOTAL INPUT POWER (COOLING) - 1Ø / <3Ø>** | | | | **W** | 2560 / <2631> |
| **NOMINAL TOTAL INPUT POWER (HEATING) - 1Ø / <3Ø>** | | | | **W** | 2442 / <2294> |
| **NOMINAL RUNNING CURRENT (COOLING) - 1Ø / <3Ø>** | | | | **A** | 12.2 / <4.6> |
| **NOMINAL RUNNING CURRENT (HEATING) - 1Ø / <3Ø>** | | | | **A** | 11.6 / <4.2> |
| **POWER SOURCE** | | | | **V/Ph/Hz** | 220-240/ 1/ 50 / <380-415/ 3/ 50> |
| **EER - 1Ø / <3Ø>** | | | | **W/W** | 2.98 / <2.89> |
| **COP - 1Ø / <3Ø>** | | | | **W/W** | 3.12 / <3.32> |
| **REFRIGERANT TYPE** | | | | | R410A |
| **REFRIGERANT CONTROL (EXPANSION DEVICE)** | | | | | OUTDOOR CAP. TUBE |
| **INDOOR UNIT** | **CONTROL** | **AIR DISCHARGE** | | | AUTO LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) |
| | | **OPERATION** | | | LCD REMOTE CONTROL |
| | **AIR FLOW** | | **HIGH** | **l/s / cfm** | 316 / 670 |
| | | | **MEDIUM** | **l/s / cfm** | 297 / 630 |
| | | | **LOW** | **l/s / cfm** | 236 / 500 |
| | **SOUND PRESSURE LEVEL (H/M/L)** | | | **dBA** | 49 / 47 / 45 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 360 / 14.2 |
| | | | **WIDTH** | **mm/in** | 1200 / 47.2 |
| | | | **DEPTH** | **mm/in** | 200 / 7.9 |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 420 / 16.5 |
| | | | **WIDTH** | **mm/in** | 1267 / 49.9 |
| | | | **DEPTH** | **mm/in** | 260 / 10.2 |
| | **UNIT WEIGHT** | | | **kg/lb** | 17 / 37.48 |
| | **CONDENSATE DRAIN SIZE** | | | **mm/in** | 20 / 0.79 |
| **OUTDOOR UNIT** | **AIR FLOW** | | | **l/s / cfm** | 632 / 1340 |
| | **SOUND PRESSURE LEVEL** | | | **dBA** | 54 |
| | **UNIT DIMENSION** | | **HEIGHT** | **mm/in** | 750 / 29.5 |
| | | | **WIDTH** | **mm/in** | 855 / 33.7 |
| | | | **DEPTH** | **mm/in** | 328 / 12.9 |
| | **PACKING DIMENSION** | | **HEIGHT** | **mm/in** | 810 / 31.9 |
| | | | **WIDTH** | **mm/in** | 990 / 39.0 |
| | | | **DEPTH** | **mm/in** | 415 / 16.3 |
| | **UNIT WEIGHT** | | | **kg/lb** | 68 / 149.9 |
| | **PIPE CONNECTION** | **TYPE** | | | FLARE VALVE |
| | | **SIZE** | **LIQUID** | **mm/in** | 9.52 / 3/8 |
| | | | **GAS** | **mm/in** | 15.88 / 5/8 |
| | **REFRIGERANT CHARGE** | | | **kg/lb** | 1.75 / 3.86 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*
*3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :*
*a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR*
*b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR*
*4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.*

## Components Data - Cooling Only (R22)

| MODEL | INDOOR UNIT | | | MWM 007G | MWM 009G |
|---|---|---|---|---|---|
| | OUTDOOR UNIT | | | MLC 007C | MLC 009C |
| INDOOR FAN | TYPE | | | CROSS FLOW FAN | |
| | QUANTITY | | | 1 | |
| | MATERIAL | | | ACRYLO NITRILE STYRENE | |
| | DRIVE | | | DIRECT | |
| | DIAMETER | | mm/in | 97/3.8 | |
| | LENGTH | | mm/in | 617.5/24.3 | |
| INDOOR FAN MOTOR | TYPE | | | INDUCTION | |
| | QUANTITY | | | 1 | |
| | INDEX OF PROTECTION (IP) | | | IP24 | |
| OUTDOOR FAN | TYPE | | | PROPELLER | |
| | QUANTITY | | | 1 | |
| | MATERIAL | | | GLASS REINFORCED ACRYL STYRENE RESIN | |
| | DRIVE | | | DIRECT | |
| | DIAMETER | | mm/in | 356/14 | |
| OUTDOOR FAN MOTOR | TYPE | | | INDUCTION | |
| | QUANTITY | | | 1 | |
| | INDEX OF PROTECTION (IP) | | | IP54 | |
| COMPRESSOR | TYPE | | | ROTARY HERMETIC | |
| | OIL TYPE | | | ATMOS M60 or SUNISO 4GDID | |
| | OIL AMOUNT | | $cm^3$ / fl.oz. | 320/11.3 | |
| INDOOR COIL | TUBE | MATERIAL | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | DIAMETER | mm/in | 7.0 / 0.276 | |
| | | THICKNESS | mm/in | 0.28 / 0.011 | |
| | FIN | MATERIAL | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) | |
| | | THICKNESS | mm/in | 0.11 / 0.0043 | |
| | | FACE AREA | $m^2/ft^2$ | 0.201 / 2.161 | |
| | | ROW | | 2 | |
| | | FIN PER INCH | | 18 | |
| OUTDOOR COIL | TUBE | MATERIAL | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | DIAMETER | mm/in | 7.0 / 0.276 | |
| | | THICKNESS | mm/in | 0.28 / 0.011 | |
| | FIN | MATERIAL | | RAISE LANCE | |
| | | THICKNESS | mm/in | 0.11/0.004 | |
| | | FACE AREA | $m^2/ft^2$ | 0.31/3.40 | |
| | | ROW | | 1 | |
| | | FIN PER INCH | | 18 | |
| AIR QUALITY | FILTER | TYPE | | NANO FILTER | |
| | | QUANTITY | pc | 2 | |
| | | SIZE LENGTH | mm/in | 304/11.9 | |
| | | SIZE WIDTH | mm/in | 298/11.7 | |
| | | SIZE THICKNESS | mm/in | 1.5/0.06 | |
| | NEGATIVE IONIZER | | | YES | |
| CASING | INDOOR UNIT | MATERIAL | | HIGH IMPACT POLYSTYRENE | |
| | | COLOUR | | LIGHT GREY | |
| | OUTDOOR UNIT | MATERIAL | | GALVANISED MILD STEEL | |
| | | COLOUR | | LIGHT GREY | |

*1) ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE*

## Components Data - Cooling Only (R22)

| MODEL | INDOOR UNIT | | | MWM 010G | MWM 015G |
|---|---|---|---|---|---|
| | OUTDOOR UNIT | | | MLC 010C | MLC 015C |
| INDOOR FAN | TYPE | | | CROSS FLOW FAN | |
| | QUANTITY | | | 1 | |
| | MATERIAL | | | ACRYLO NITRILE STYRENE | |
| | DRIVE | | | DIRECT | |
| | DIAMETER | | mm/in | 97/3.8 | |
| | LENGTH | | mm/in | 717.5/28.2 | |
| INDOOR FAN MOTOR | TYPE | | | INDUCTION | |
| | QUANTITY | | | 1 | |
| | INDEX OF PROTECTION (IP) | | | IP24 | |
| OUTDOOR FAN | TYPE | | | PROPELLER | |
| | QUANTITY | | | 1 | |
| | MATERIAL | | | GLASS REINFORCED ACRYL STYRENE RESIN | |
| | DRIVE | | | DIRECT | |
| | DIAMETER | | mm/in | 404/16 | |
| OUTDOOR FAN MOTOR | TYPE | | | INDUCTION | |
| | QUANTITY | | | 1 | |
| | INDEX OF PROTECTION (IP) | | | IP54 | |
| COMPRESSOR | TYPE | | | ROTARY HERMETIC | |
| | OIL TYPE | | | ATMOS M60 or SUNISO 4GDID | |
| | OIL AMOUNT | | $cm^3$ / fl.oz. | 320 / 11.3 | 350 / 11.8 |
| INDOOR COIL | TUBE | MATERIAL | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | DIAMETER | mm/in | 7.0 / 0.276 | |
| | | THICKNESS | mm/in | 0.28 / 0.011 | |
| | FIN | MATERIAL | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) | |
| | | THICKNESS | mm/in | 0.11 / 0.0043 | |
| | | FACE AREA | $m^2/ft^2$ | 0.234 / 2.516 | |
| | | ROW | | 2 | |
| | | FIN PER INCH | | 18 | |
| OUTDOOR COIL | TUBE | MATERIAL | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | DIAMETER | mm/in | 7.0 / 0.276 | |
| | | THICKNESS | mm/in | 0.28 / 0.011 | |
| | FIN | MATERIAL | | CORRUGATED | RASE LANCE |
| | | THICKNESS | mm/in | 0.11/0.004 | |
| | | FACE AREA | $m^2/ft^2$ | 0.36/3.94 | |
| | | ROW | | 1 | |
| | | FIN PER INCH | | 18 | |
| AIR QUALITY | FILTER | TYPE | | NANO FILTER | |
| | | QUANTITY | pc | 2 | |
| | | SIZE LENGTH | mm/in | 304/11.9 | |
| | | SIZE WIDTH | mm/in | 348/13.7 | |
| | | SIZE THICKNESS | mm/in | 1.5/0.06 | |
| | NEGATIVE IONIZER | | | YES | |
| CASING | INDOOR UNIT | MATERIAL | | HIGH IMPACT POLYSTYRENE | |
| | | COLOUR | | LIGHT GREY | |
| | OUTDOOR UNIT | MATERIAL | | GALVANISED MILD STEEL | |
| | | COLOUR | | LIGHT GREY | |

*1) ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE*

## Components Data - Cooling Only (R22)

| MODEL | INDOOR UNIT | | | | MWM 020G | MWM 020G |
|---|---|---|---|---|---|---|
| | OUTDOOR UNIT | | | | MLC 018C | MLC 020C |
| INDOOR FAN | TYPE | | | | CROSS FLOW FAN | |
| | QUANTITY | | | | 1 | |
| | MATERIAL | | | | ACRYLO NITRILE STYRENE | |
| | DRIVE | | | | DIRECT | |
| | DIAMETER | | | mm/in | 108/4.25 | |
| | LENGTH | | | mm/in | 810/31.9 | |
| INDOOR FAN MOTOR | TYPE | | | | INDUCTION | |
| | QUANTITY | | | | 1 | |
| | INDEX OF PROTECTION (IP) | | | | IP20 | |
| OUTDOOR FAN | TYPE | | | | PROPELLER | |
| | QUANTITY | | | | 1 | |
| | MATERIAL | | | | GLASS REINFORCED ACRYL STYRENE RESIN | |
| | DRIVE | | | | DIRECT | |
| | DIAMETER | | | mm/in | 457.2/18 | |
| OUTDOOR FAN MOTOR | TYPE | | | | INDUCTION | |
| | QUANTITY | | | | 1 | |
| | INDEX OF PROTECTION (IP) | | | | IP54 | |
| COMPRESSOR | TYPE | | | | ROTARY HERMETIC | |
| | OIL TYPE | | | | ATMOS NM56M or SUNISO 4GDID | |
| | OIL AMOUNT | | | $cm^3$ / fl.oz. | 600 / 21.1 | 1000 / 35.2 |
| INDOOR COIL | TUBE | MATERIAL | | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | DIAMETER | | mm/in | 7.0 / 0.276 | |
| | | THICKNESS | | mm/in | 0.28 / 0.011 | |
| | FIN | MATERIAL | | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) | |
| | | THICKNESS | | mm/in | 0.11 / 0.0043 | |
| | | FACE AREA | | $m^2/ft^2$ | 0.269 / 2.900 | |
| | | ROW | | | 2 | |
| | | FIN PER INCH | | | 18 | |
| OUTDOOR COIL | TUBE | MATERIAL | | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | DIAMETER | | mm/in | 7.0 / 0.276 | |
| | | THICKNESS | | mm/in | 0.28 / 0.011 | |
| | FIN | MATERIAL | | | ALUMINIUM (RAISE LANCE FIN) | |
| | | THICKNESS | | mm/in | 0.11 / 0.0043 | |
| | | FACE AREA | | $m^2/ft^2$ | 0.52 / 5.59 | |
| | | ROW | | | 1 | 2 |
| | | FIN PER INCH | | | 20 | 18 |
| AIR QUALITY | FILTER | TYPE | | | NANO FILTER | |
| | | QUANTITY | | pc | 2 | |
| | | SIZE | LENGTH | mm/in | 351/13.8 | |
| | | | WIDTH | mm/in | 386/15.2 | |
| | | | THICKNESS | mm/in | 1.5/0.06 | |
| | NEGATIVE IONIZER | | | | YES | |
| CASING | INDOOR UNIT | | MATERIAL | | HIGH IMPACT POLYSTYRENE | |
| | | | COLOUR | | LIGHT GREY | |
| | OUTDOOR UNIT | | MATERIAL | | GALVANISED MILD STEEL | |
| | | | COLOUR | | LIGHT GREY | |

*1) ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE*

## Components Data - Cooling Only (R22)

| MODEL | INDOOR UNIT | | | MWM 025G | MWM 030F |
|---|---|---|---|---|---|
| | OUTDOOR UNIT | | | MLC 025C | MLC 028C |
| INDOOR FAN | TYPE | | | CROSS FLOW FAN | ANTI FUNGUS CROSS FLOW FAN |
| | QUANTITY | | | 1 | |
| | MATERIAL | | | ACRYLO NITRILE STYRENE | |
| | DRIVE | | | DIRECT | |
| | DIAMETER | | mm/in | 108/4.25 | 106 / 4.17 |
| | LENGTH | | mm/in | 810/31.9 | 950 / 37.4 |
| INDOOR FAN MOTOR | TYPE | | | INDUCTION | INDUCTION |
| | QUANTITY | | | 1 | |
| | INDEX OF PROTECTION (IP) | | | IP20 | IP24 |
| OUTDOOR FAN | TYPE | | | PROPELLER | |
| | QUANTITY | | | 1 | |
| | MATERIAL | | | GLASS REINFORCED ACRYL STYRENE RESIN | |
| | DRIVE | | | DIRECT | |
| | DIAMETER | | mm/in | 457.2/18 | |
| OUTDOOR FAN MOTOR | TYPE | | | INDUCTION | |
| | QUANTITY | | | 1 | |
| | INDEX OF PROTECTION (IP) | | | IP54 | |
| COMPRESSOR | TYPE | | | ROTARY HERMETIC | |
| | OIL TYPE | | | ATMOS NM56M or SUNISO 4GDID | |
| | OIL AMOUNT | | $cm^3$ / fl.oz. | 700 / 24.6 | 1130 / 39.8 |
| INDOOR COIL | TUBE | MATERIAL | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | DIAMETER | mm/in | 7.0 / 0.276 | 9.52 / 0.375 |
| | | THICKNESS | mm/in | 0.28 / 0.011 | 0.35 / 0.013 |
| | FIN | MATERIAL | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) | |
| | | THICKNESS | mm/in | 0.11 / 0.0043 | |
| | | FACE AREA | $m^2/ft^2$ | 0.269 / 2.900 | 0.291 / 3.130 |
| | | ROW | | 2 | |
| | | FIN PER INCH | | 18 | 16 |
| OUTDOOR COIL | TUBE | MATERIAL | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | DIAMETER | mm/in | 7.0 / 0.276 | 9.52 / 3/8 |
| | | THICKNESS | mm/in | 0.28 / 0.011 | 0.33 / 0.013 |
| | FIN | MATERIAL | | RAISE LANCE | ALUMINIUM (SLIT FIN) |
| | | THICKNESS | mm/in | 0.127 / 0.005 | |
| | | FACE AREA | $m^2/ft^2$ | 0.61 / 6.52 | |
| | | ROW | | 2 | |
| | | FIN PER INCH | | 18 | |
| AIR QUALITY | FILTER | TYPE | | NANO FILTER | SARANET + IONIZER |
| | | QUANTITY | pc | 2 | 3 X 3 |
| | | SIZE LENGTH | mm/in | 351/13.8 | 330/13.0 |
| | | SIZE WIDTH | mm/in | 386/15.2 | 317/12.4 |
| | | SIZE THICKNESS | mm/in | 1.5/0.06 | 1.8/0.07 |
| | NEGATIVE IONIZER | | | YES | NO |
| CASING | INDOOR UNIT | MATERIAL | | HIGH IMPACT POLYSTYRENE | ABS |
| | | COLOUR | | LIGHT GREY | |
| | OUTDOOR UNIT | MATERIAL | | GALVANISED MILD STEEL | |
| | | COLOUR | | LIGHT GREY | |

*1) ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE*

## Components Data - Heatpump (R22)

| | | | | | |
|---|---|---|---|---|---|
| **MODEL** | **INDOOR UNIT** | | | | **MWM 009GR** |
| | **OUTDOOR UNIT** | | | | **MLC 009CR** |
| **INDOOR FAN** | **TYPE** | | | | ANTI FUNGUS SKEW FAN |
| | **QUANTITY** | | | | 1 |
| | **MATERIAL** | | | | ACRYLO NITRILE STYRENE |
| | **DRIVE** | | | | DIRECT |
| | **DIAMETER** | | | **mm/in** | 97/3.8 |
| | **LENGTH** | | | **mm/in** | 617.5/24.3 |
| **INDOOR FAN MOTOR** | **TYPE** | | | | INDUCTION |
| | **QUANTITY** | | | | 1 |
| | **INDEX OF PROTECTION (IP)** | | | | IP24 |
| **OUTDOOR FAN** | **TYPE** | | | | PROPELLER |
| | **QUANTITY** | | | | 1 |
| | **MATERIAL** | | | | GLASS REINFORCED ACRYL STYRENE RESIN |
| | **DRIVE** | | | | DIRECT |
| | **DIAMETER** | | | **mm/in** | 356/14 |
| **OUTDOOR FAN MOTOR** | **TYPE** | | | | INDUCTION |
| | **QUANTITY** | | | | 1 |
| | **INDEX OF PROTECTION (IP)** | | | | IP54 |
| **COMPRESSOR** | **TYPE** | | | | ROTARY HERMETIC |
| | **OIL TYPE** | | | | ATMOS M60 or SUNISO 4GDID |
| | **OIL AMOUNT** | | | **$cm^3$ / fl.oz.** | 320/11.3 |
| **INDOOR COIL** | **TUBE** | **MATERIAL** | | | SEAMLESS INNER GROOVE COPPER TUBE |
| | | **DIAMETER** | | **mm/in** | 7.0 / 0.276 |
| | | **THICKNESS** | | **mm/in** | 0.28 / 0.011 |
| | **FIN** | **MATERIAL** | | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) |
| | | **THICKNESS** | | **mm/in** | 0.11 / 0.0043 |
| | | **FACE AREA** | | **$m^2/ft^2$** | 0.201 / 2.161 |
| | | **ROW** | | | 2 |
| | | **FIN PER INCH** | | | 18 |
| **OUTDOOR COIL** | **TUBE** | **MATERIAL** | | | SEAMLESS INNER GROOVE COPPER TUBE |
| | | **DIAMETER** | | **mm/in** | 9.52 / 3/8 |
| | | **THICKNESS** | | **mm/in** | 0.33 / 0.013 |
| | **FIN** | **MATERIAL** | | | ALUMINIUM (SLIT FIN) |
| | | **THICKNESS** | | **mm/in** | 0.11/0.004 |
| | | **FACE AREA** | | **$m^2/ft^2$** | 0.31/3.40 |
| | | **ROW** | | | 1 |
| | | **FIN PER INCH** | | | 18 |
| **AIR QUALITY** | **FILTER** | **TYPE** | | | NANO FILTER |
| | | **QUANTITY** | | **pc** | 2 |
| | | **SIZE** | **LENGTH** | **mm/in** | 304/11.9 |
| | | | **WIDTH** | **mm/in** | 298/11.7 |
| | | | **THICKNESS** | **mm/in** | 1.5/0.06 |
| | **NEGATIVE IONIZER** | | | | YES |
| **CASING** | **INDOOR UNIT** | | **MATERIAL** | | HIGH IMPACT POLYSTYRENE |
| | | | **COLOUR** | | LIGHT GREY |
| | **OUTDOOR UNIT** | | **MATERIAL** | | GALVANISED MILD STEEL |
| | | | **COLOUR** | | LIGHT GREY |

*1) ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE*

## Components Data - Heatpump (R22)

| | | | | | | |
|---|---|---|---|---|---|---|
| **MODEL** | **INDOOR UNIT** | | | | **MWM 010GR** | **MWM 015GR** |
| | **OUTDOOR UNIT** | | | | **MLC 010CR** | **MLC 015CR** |
| **INDOOR FAN** | **TYPE** | | | | ANTI FUNGUS SKEW FAN | |
| | **QUANTITY** | | | | 1 | |
| | **MATERIAL** | | | | ACRYLO NITRILE STYRENE | |
| | **DRIVE** | | | | DIRECT | |
| | **DIAMETER** | | | **mm/in** | 97/3.8 | |
| | **LENGTH** | | | **mm/in** | 717.5/28.2 | |
| **INDOOR FAN MOTOR** | **TYPE** | | | | INDUCTION | |
| | **QUANTITY** | | | | 1 | |
| | **INDEX OF PROTECTION (IP)** | | | | IP24 | |
| **OUTDOOR FAN** | **TYPE** | | | | PROPELLER | |
| | **QUANTITY** | | | | 1 | |
| | **MATERIAL** | | | | GLASS REINFORCED ACRYL STYRENE RESIN | |
| | **DRIVE** | | | | DIRECT | |
| | **DIAMETER** | | | **mm/in** | 404/16 | |
| **OUTDOOR FAN MOTOR** | **TYPE** | | | | INDUCTION | |
| | **QUANTITY** | | | | 1 | |
| | **INDEX OF PROTECTION (IP)** | | | | IP54 | |
| **COMPRESSOR** | **TYPE** | | | | ROTARY HERMETIC | |
| | **OIL TYPE** | | | | ATMOS M60 or SUNISO 4GDID | |
| | **OIL AMOUNT** | | | **$cm^3$ / fl.oz.** | 320 / 11.3 | 350 / 11.8 |
| **INDOOR COIL** | **TUBE** | **MATERIAL** | | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | **DIAMETER** | | **mm/in** | 7.0 / 0.276 | |
| | | **THICKNESS** | | **mm/in** | 0.28 / 0.011 | |
| | **FIN** | **MATERIAL** | | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) | |
| | | **THICKNESS** | | **mm/in** | 0.11 / 0.0043 | |
| | | **FACE AREA** | | **$m^2/ft^2$** | 0.234 / 2.516 | |
| | | **ROW** | | | 2 | |
| | | **FIN PER INCH** | | | 18 | |
| **OUTDOOR COIL** | **TUBE** | **MATERIAL** | | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | **DIAMETER** | | **mm/in** | 9.52 / 3/8 | |
| | | **THICKNESS** | | **mm/in** | 0.33 / 0.013 | |
| | **FIN** | **MATERIAL** | | | ALUMINIUM (SLIT FIN) | |
| | | **THICKNESS** | | **mm/in** | 0.11/0.004 | |
| | | **FACE AREA** | | **$m^2/ft^2$** | 0.36/3.94 | |
| | | **ROW** | | | 1 | |
| | | **FIN PER INCH** | | | 18 | |
| **AIR QUALITY** | **FILTER** | **TYPE** | | | NANO FILTER | |
| | | **QUANTITY** | | **pc** | 2 | |
| | | **SIZE** | **LENGTH** | **mm/in** | 304/11.9 | |
| | | | **WIDTH** | **mm/in** | 348/13.7 | |
| | | | **THICKNESS** | **mm/in** | 1.5/0.06 | |
| | **NEGATIVE IONIZER** | | | | YES | |
| **CASING** | **INDOOR UNIT** | | **MATERIAL** | | HIGH IMPACT POLYSTYRENE | |
| | | | **COLOUR** | | LIGHT GREY | |
| | **OUTDOOR UNIT** | | **MATERIAL** | | GALVANISED MILD STEEL | |
| | | | **COLOUR** | | LIGHT GREY | |

*1) ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE*

## Components Data - Heatpump (R22)

| MODEL | INDOOR UNIT | | | MWM 020GR | MWM 020GR |
|---|---|---|---|---|---|
| | OUTDOOR UNIT | | | MLC 018CR | MLC 020CR |
| INDOOR FAN | TYPE | | | CROSS FLOW FAN | |
| | QUANTITY | | | 1 | |
| | MATERIAL | | | ACRYLO NITRILE STYRENE | |
| | DRIVE | | | DIRECT | |
| | DIAMETER | | mm/in | 108/4.25 | |
| | LENGTH | | mm/in | 810/31.9 | |
| INDOOR FAN MOTOR | TYPE | | | INDUCTION | |
| | QUANTITY | | | 1 | |
| | INDEX OF PROTECTION (IP) | | | IP20 | |
| OUTDOOR FAN | TYPE | | | PROPELLER | |
| | QUANTITY | | | 1 | |
| | MATERIAL | | | GLASS REINFORCED ACRYL STYRENE RESIN | |
| | DRIVE | | | DIRECT | |
| | DIAMETER | | mm/in | 457.2/18 | |
| OUTDOOR FAN MOTOR | TYPE | | | INDUCTION | |
| | QUANTITY | | | 1 | |
| | INDEX OF PROTECTION (IP) | | | IP54 | |
| COMPRESSOR | TYPE | | | ROTARY HERMETIC | |
| | OIL TYPE | | | ATMOS NM56M or SUNISO 4GDID | |
| | OIL AMOUNT | | $cm^3$ / fl.oz. | 600 / 21.1 | 1000 / 35.2 |
| INDOOR COIL | TUBE | MATERIAL | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | DIAMETER | mm/in | 7.0 / 0.276 | |
| | | THICKNESS | mm/in | 0.28 / 0.011 | |
| | FIN | MATERIAL | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) | |
| | | THICKNESS | mm/in | 0.11 / 0.0043 | |
| | | FACE AREA | $m^2/ft^2$ | 0.269 / 2.900 | |
| | | ROW | | 2 | |
| | | FIN PER INCH | | 18 | |
| OUTDOOR COIL | TUBE | MATERIAL | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | DIAMETER | mm/in | 7.0 / 0.276 | |
| | | THICKNESS | mm/in | 0.28 / 0.011 | |
| | FIN | MATERIAL | | ALUMINIUM (RAISE LANCE FIN) | |
| | | THICKNESS | mm/in | 0.11 / 0.0043 | |
| | | FACE AREA | $m^2/ft^2$ | 0.52 / 5.59 | |
| | | ROW | | 1 | 2 |
| | | FIN PER INCH | | 20 | 18 |
| AIR QUALITY | FILTER | TYPE | | NANO FILTER | |
| | | QUANTITY | pc | 2 | |
| | | SIZE – LENGTH | mm/in | 351/13.8 | |
| | | SIZE – WIDTH | mm/in | 386/15.2 | |
| | | SIZE – THICKNESS | mm/in | 1.5/0.06 | |
| | NEGATIVE IONIZER | | | YES | |
| CASING | INDOOR UNIT | MATERIAL | | HIGH IMPACT POLYSTYRENE | |
| | | COLOUR | | LIGHT GREY | |
| | OUTDOOR UNIT | MATERIAL | | GALVANISED MILD STEEL | |
| | | COLOUR | | LIGHT GREY | |

*1) ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE*

## Components Data - Heatpump (R22)

| | | | | | | |
|---|---|---|---|---|---|---|
| **MODEL** | **INDOOR UNIT** | | | | **MWM 025GR** | **MWM 030FR** |
| | **OUTDOOR UNIT** | | | | **MLC 025CR** | **MLC 028CR** |
| **INDOOR FAN** | **TYPE** | | | | CROSS FLOW FAN | ANTI FUNGUS CROSS FLOW FAN |
| | **QUANTITY** | | | | 1 | |
| | **MATERIAL** | | | | ACRYLO NITRILE STYRENE | |
| | **DRIVE** | | | | DIRECT | |
| | **DIAMETER** | | | **mm/in** | 108/4.25 | 106 / 4.17 |
| | **LENGTH** | | | **mm/in** | 810/31.9 | 950 / 37.4 |
| **INDOOR FAN MOTOR** | **TYPE** | | | | INDUCTION | |
| | **QUANTITY** | | | | 1 | |
| | **INDEX OF PROTECTION (IP)** | | | | IP20 | IP24 |
| **OUTDOOR FAN** | **TYPE** | | | | PROPELLER | |
| | **QUANTITY** | | | | 1 | |
| | **MATERIAL** | | | | GLASS REINFORCED ACRYL STYRENE RESIN | |
| | **DRIVE** | | | | DIRECT | |
| | **DIAMETER** | | | **mm/in** | 457.2/18 | |
| **OUTDOOR FAN MOTOR** | **TYPE** | | | | INDUCTION | |
| | **QUANTITY** | | | | 1 | |
| | **INDEX OF PROTECTION (IP)** | | | | IP54 | |
| **COMPRESSOR** | **TYPE** | | | | ROTARY HERMETIC | |
| | **OIL TYPE** | | | | ATMOS NM56M or SUNISO 4GDID | ATMOS M60 or SUNISO 4GDID |
| | **OIL AMOUNT** | | | **$cm^3$ / fl.oz.** | 700 / 24.6 | 1130 / 39.8 |
| **INDOOR COIL** | **TUBE** | **MATERIAL** | | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | **DIAMETER** | | **mm/in** | 7.0 / 0.276 | 9.52 / 0.375 |
| | | **THICKNESS** | | **mm/in** | 0.28 / 0.011 | 0.35 / 0.013 |
| | **FIN** | **MATERIAL** | | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) | |
| | | **THICKNESS** | | **mm/in** | 0.11 / 0.0043 | |
| | | **FACE AREA** | | **$m^2/ft^2$** | 0.269 / 2.900 | 0.291 / 3.130 |
| | | **ROW** | | | 2 | 2 |
| | | **FIN PER INCH** | | | 18 | 16 |
| **OUTDOOR COIL** | **TUBE** | **MATERIAL** | | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | **DIAMETER** | | **mm/in** | 7 / 0.275 | 9.52 / 3/8 |
| | | **THICKNESS** | | **mm/in** | 0.28 / 0.011 | 0.33 / 0.013 |
| | **FIN** | **MATERIAL** | | | ALUMINIUM (RAISE LANCE) | ALUMINIUM (SLIT FIN) |
| | | **THICKNESS** | | **mm/in** | 0.11 / 0.0043 | 0.11/0.004 |
| | | **FACE AREA** | | **$m^2/ft^2$** | 0.61 / 6.52 | |
| | | **ROW** | | | 2 | |
| | | **FIN PER INCH** | | | 18 | |
| **AIR QUALITY** | **FILTER** | **TYPE** | | | NANO FILTER | SARANET + IONIZER |
| | | **QUANTITY** | | **pc** | 2 | 3 X 3 |
| | | **SIZE** | **LENGTH** | **mm/in** | 351/13.8 | 330/13.0 |
| | | | **WIDTH** | **mm/in** | 386/15.2 | 317/12.4 |
| | | | **THICKNESS** | **mm/in** | 1.5/0.06 | 1.8/0.07 |
| | **NEGATIVE IONIZER** | | | | YES | NO |
| **CASING** | **INDOOR UNIT** | | **MATERIAL** | | HIGH IMPACT POLYSTYRENE | ABS |
| | | | **COLOUR** | | LIGHT GREY | |
| | **OUTDOOR UNIT** | | **MATERIAL** | | GALVANISED MILD STEEL | |
| | | | **COLOUR** | | LIGHT GREY | |

*1) ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE*

## Components Data - Cooling Only (R410A)

| | | | | | | |
|---|---|---|---|---|---|---|
| **MODEL** | **INDOOR UNIT** | | | | **M5WM 007G** | **M5WM 009G** |
| | **OUTDOOR UNIT** | | | | **M5LC 007C** | **M5LC 010C** |
| **INDOOR FAN** | **TYPE** | | | | ANTI FUNGUS SKEW FAN | |
| | **QUANTITY** | | | | 1 | |
| | **MATERIAL** | | | | ACRYLO NITRILE STYRENE | |
| | **DRIVE** | | | | DIRECT | |
| | **DIAMETER** | | | **mm/in** | 97/3.8 | |
| | **LENGTH** | | | **mm/in** | 617.5/24.3 | |
| **INDOOR FAN MOTOR** | **TYPE** | | | | INDUCTION | |
| | **QUANTITY** | | | | 1 | |
| | **INDEX OF PROTECTION (IP)** | | | | IP24 | |
| **OUTDOOR FAN** | **TYPE** | | | | PROPELLER | |
| | **QUANTITY** | | | | 1 | |
| | **MATERIAL** | | | | GLASS REINFORCED ACRYL STYRENE RESIN | |
| | **DRIVE** | | | | DIRECT | |
| | **DIAMETER** | | | **mm/in** | 356/14 | |
| **OUTDOOR FAN MOTOR** | **TYPE** | | | | INDUCTION | |
| | **QUANTITY** | | | | 1 | |
| | **INDEX OF PROTECTION (IP)** | | | | IP54 | |
| **COMPRESSOR** | **TYPE** | | | | ROTARY HERMETIC | |
| | **OIL TYPE** | | | | RB68A or Freol Alpha68M | |
| | **OIL AMOUNT** | | | **$cm^3$ / fl.oz.** | 300 / 10.5 | 350 / 12.3 |
| **INDOOR COIL** | **TUBE** | **MATERIAL** | | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | **DIAMETER** | | **mm/in** | 7.0 / 0.276 | |
| | | **THICKNESS** | | **mm/in** | 0.28 / 0.011 | |
| | **FIN** | **MATERIAL** | | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) | |
| | | **THICKNESS** | | **mm/in** | 0.11 / 0.0043 | |
| | | **FACE AREA** | | **$m^2/ft^2$** | 0.201 / 2.161 | |
| | | **ROW** | | | 2 | |
| | | **FIN PER INCH** | | | 18 | |
| **OUTDOOR COIL** | **TUBE** | **MATERIAL** | | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | **DIAMETER** | | **mm/in** | 9.52 / 3/8 | |
| | | **THICKNESS** | | **mm/in** | 0.33 / 0.013 | |
| | **FIN** | **MATERIAL** | | | ALUMINIUM (SLIT FIN) | |
| | | **THICKNESS** | | **mm/in** | 0.11/0.004 | |
| | | **FACE AREA** | | **$m^2/ft^2$** | 0.31/3.40 | 0.36/3.94 |
| | | **ROW** | | | 1 | |
| | | **FIN PER INCH** | | | 18 | |
| **AIR QUALITY** | **FILTER** | **TYPE** | | | NANO FILTER | |
| | | **QUANTITY** | | **pc** | 2 | |
| | | **SIZE** | **LENGTH** | **mm/in** | 304/11.9 | |
| | | | **WIDTH** | **mm/in** | 298/11.7 | |
| | | | **THICKNESS** | **mm/in** | 1.5/0.06 | |
| | **NEGATIVE IONIZER** | | | | YES | |
| **CASING** | **INDOOR UNIT** | | **MATERIAL** | | HIPS | |
| | | | **COLOUR** | | IVORY | |
| | **OUTDOOR UNIT** | | **MATERIAL** | | GALVANISED MILD STEEL | |
| | | | **COLOUR** | | LIGHT GREY | |

*1) ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE*

## Components Data - Cooling Only (R410A)

| | | | | | | |
|---|---|---|---|---|---|---|
| **MODEL** | **INDOOR UNIT** | | | | **M5WM 010G** | **M5WM 015G** |
| | **OUTDOOR UNIT** | | | | **M5LC 010C** | **M5LC 015C** |
| **INDOOR FAN** | **TYPE** | | | | ANTI FUNGUS SKEW FAN | |
| | **QUANTITY** | | | | 1 | |
| | **MATERIAL** | | | | ACRYLO NITRILE STYRENE | |
| | **DRIVE** | | | | DIRECT | |
| | **DIAMETER** | | | **mm/in** | 97/3.8 | |
| | **LENGTH** | | | **mm/in** | 717.5/28.2 | |
| **INDOOR FAN MOTOR** | **TYPE** | | | | INDUCTION | |
| | **QUANTITY** | | | | 1 | |
| | **INDEX OF PROTECTION (IP)** | | | | IP24 | |
| **OUTDOOR FAN** | **TYPE** | | | | PROPELLER | |
| | **QUANTITY** | | | | 1 | |
| | **MATERIAL** | | | | GLASS REINFORCED ACRYL STYRENE RESIN | |
| | **DRIVE** | | | | DIRECT | |
| | **DIAMETER** | | | **mm/in** | 404/16 | |
| **OUTDOOR FAN MOTOR** | **TYPE** | | | | INDUCTION | |
| | **QUANTITY** | | | | 1 | |
| | **INDEX OF PROTECTION (IP)** | | | | IP24 | |
| **COMPRESSOR** | **TYPE** | | | | ROTARY HERMETIC | |
| | **OIL TYPE** | | | | RB68A or Freol Alpha68M | |
| | **OIL AMOUNT** | | | **$cm^3$ / fl.oz.** | 350 / 12.3 | 430 / 15.1 |
| **INDOOR COIL** | **TUBE** | **MATERIAL** | | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | **DIAMETER** | | **mm/in** | 7.0 / 0.276 | |
| | | **THICKNESS** | | **mm/in** | 0.28 / 0.011 | |
| | **FIN** | **MATERIAL** | | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) | |
| | | **THICKNESS** | | **mm/in** | 0.11 / 0.0043 | |
| | | **FACE AREA** | | **$m^2/ft^2$** | 0.234 / 2.516 | |
| | | **ROW** | | | 2 | |
| | | **FIN PER INCH** | | | 18 | |
| **OUTDOOR COIL** | **TUBE** | **MATERIAL** | | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | **DIAMETER** | | **mm/in** | 9.52 / 3/8 | |
| | | **THICKNESS** | | **mm/in** | 0.33 / 0.013 | |
| | **FIN** | **MATERIAL** | | | ALUMINIUM (SLIT FIN) | |
| | | **THICKNESS** | | **mm/in** | 0.11/0.004 | |
| | | **FACE AREA** | | **$m^2/ft^2$** | 0.36/3.94 | |
| | | **ROW** | | | 1 | |
| | | **FIN PER INCH** | | | 18 | |
| **AIR QUALITY** | **FILTER** | **TYPE** | | | NANO FILTER | |
| | | **QUANTITY** | | **pc** | 2 | |
| | | **SIZE** | **LENGTH** | **mm/in** | 304/11.9 | |
| | | | **WIDTH** | **mm/in** | 348/13.7 | |
| | | | **THICKNESS** | **mm/in** | 1.5/0.06 | |
| | **NEGATIVE IONIZER** | | | | YES | |
| **CASING** | **INDOOR UNIT** | | **MATERIAL** | | HIPS | |
| | | | **COLOUR** | | IVORY | |
| | **OUTDOOR UNIT** | | **MATERIAL** | | GALVANISED MILD STEEL | |
| | | | **COLOUR** | | LIGHT GREY | |

*1) ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE*

## Components Data - Cooling Only (R410A)

| | | | | | | |
|---|---|---|---|---|---|---|
| **MODEL** | **INDOOR UNIT** | | | | **M5WM 020G** | **M5WM 025G** |
| | **OUTDOOR UNIT** | | | | **M5LC 020C** | **M5LC 025C** |
| **INDOOR FAN** | **TYPE** | | | | ANTI FUNGUS SKEW FAN | |
| | **QUANTITY** | | | | 1 | |
| | **MATERIAL** | | | | ACRYLO NITRILE STYRENE | |
| | **DRIVE** | | | | DIRECT | |
| | **DIAMETER** | | | **mm/in** | 108/4.25 | |
| | **LENGTH** | | | **mm/in** | 810/31.9 | |
| **INDOOR FAN MOTOR** | **TYPE** | | | | INDUCTION | |
| | **QUANTITY** | | | | 1 | |
| | **INDEX OF PROTECTION (IP)** | | | | IP20 | |
| **OUTDOOR FAN** | **TYPE** | | | | PROPELLER | |
| | **QUANTITY** | | | | 1 | |
| | **MATERIAL** | | | | GLASS REINFORCED ACRYL STYRENE RESIN | |
| | **DRIVE** | | | | DIRECT | |
| | **DIAMETER** | | | **mm/in** | 457.2/18 | |
| **OUTDOOR FAN MOTOR** | **TYPE** | | | | INDUCTION | |
| | **QUANTITY** | | | | 1 | |
| | **INDEX OF PROTECTION (IP)** | | | | IP54 | |
| **COMPRESSOR** | **TYPE** | | | | ROTARY HERMETIC | |
| | **OIL TYPE** | | | | RB68A or Freol Alpha68M | |
| | **OIL AMOUNT** | | | **$cm^3$ / fl.oz.** | 670 / 23.5 | 1130 / 39.7 |
| **INDOOR COIL** | **TUBE** | **MATERIAL** | | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | **DIAMETER** | | **mm/in** | 7.0 / 0.276 | |
| | | **THICKNESS** | | **mm/in** | 0.28 / 0.011 | |
| | **FIN** | **MATERIAL** | | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) | |
| | | **THICKNESS** | | **mm/in** | 0.11 / 0.0043 | |
| | | **FACE AREA** | | **$m^2/ft^2$** | 0.269 / 2.900 | |
| | | **ROW** | | | 2 | |
| | | **FIN PER INCH** | | | 18 | |
| **OUTDOOR COIL** | **TUBE** | **MATERIAL** | | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | **DIAMETER** | | **mm/in** | 7.0 / 0.276 | |
| | | **THICKNESS** | | **mm/in** | 0.28 / 0.011 | |
| | **FIN** | **MATERIAL** | | | ALUMINIUM (CORR. FIN) | |
| | | **THICKNESS** | | **mm/in** | 0.127 / 0.005 | |
| | | **FACE AREA** | | **$m^2/ft^2$** | 0.51 / 5.47 | 0.62 / 6.64 |
| | | **ROW** | | | 2 | |
| | | **FIN PER INCH** | | | 18 | |
| **AIR QUALITY** | **FILTER** | **TYPE** | | | NANO FILTER | |
| | | **QUANTITY** | | **pc** | 2 | |
| | | **SIZE** | **LENGTH** | **mm/in** | 351/13.8 | |
| | | | **WIDTH** | **mm/in** | 386/15.2 | |
| | | | **THICKNESS** | **mm/in** | 1.5/0.06 | |
| | **NEGATIVE IONIZER** | | | | YES | |
| **CASING** | **INDOOR UNIT** | | **MATERIAL** | | HIPS | |
| | | | **COLOUR** | | IVORY | |
| | **OUTDOOR UNIT** | | **MATERIAL** | | GALVANISED MILD STEEL | |
| | | | **COLOUR** | | LIGHT GREY | |

*1) ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE*

## Components Data - Cooling Only (R410A)

| | | | | | |
|---|---|---|---|---|---|
| **MODEL** | **INDOOR UNIT** | | | | **M5WM 031F** |
| | **OUTDOOR UNIT** | | | | **M5LC 028C** |
| **INDOOR FAN** | **TYPE** | | | | ANTI FUNGUS CROSS FLOW FAN |
| | **QUANTITY** | | | | 1 |
| | **MATERIAL** | | | | ACRYLO NITRILE STYRENE |
| | **DRIVE** | | | | DIRECT |
| | **DIAMETER** | | | **mm/in** | 106 / 4.17 |
| | **LENGTH** | | | **mm/in** | 950 / 37.4 |
| **INDOOR FAN MOTOR** | **TYPE** | | | | INDUCTION |
| | **QUANTITY** | | | | 1 |
| | **INDEX OF PROTECTION (IP)** | | | | IP24 |
| **OUTDOOR FAN** | **TYPE** | | | | PROPELLER |
| | **QUANTITY** | | | | 1 |
| | **MATERIAL** | | | | GLASS REINFORCED ACRYL STYRENE RESIN |
| | **DRIVE** | | | | DIRECT |
| | **DIAMETER** | | | **mm/in** | 457.2/18 |
| **OUTDOOR FAN MOTOR** | **TYPE** | | | | INDUCTION |
| | **QUANTITY** | | | | 1 |
| | **INDEX OF PROTECTION (IP)** | | | | IP54 |
| **COMPRESSOR** | **TYPE** | | | | ROTARY HERMETIC |
| | **OIL TYPE** | | | | RB68A or Freol Alpha68M |
| | **OIL AMOUNT** | | | **$cm^3$ / fl.oz.** | 1130 / 39.7 |
| **INDOOR COIL** | **TUBE** | **MATERIAL** | | | SEAMLESS INNER GROOVE COPPER TUBE |
| | | **DIAMETER** | | **mm/in** | 7.0 / 0.276 |
| | | **THICKNESS** | | **mm/in** | 0.28 / 0.011 |
| | **FIN** | **MATERIAL** | | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) |
| | | **THICKNESS** | | **mm/in** | 0.11 / 0.0043 |
| | | **FACE AREA** | | **$m^2/ft^2$** | 0.30 / 3.23 |
| | | **ROW** | | | 2 |
| | | **FIN PER INCH** | | | 18 |
| **OUTDOOR COIL** | **TUBE** | **MATERIAL** | | | SEAMLESS INNER GROOVE COPPER TUBE |
| | | **DIAMETER** | | **mm/in** | 7.0 / 0.276 |
| | | **THICKNESS** | | **mm/in** | 0.28 / 0.011 |
| | **FIN** | **MATERIAL** | | | ALUMINIUM (CORR. FIN) |
| | | **THICKNESS** | | **mm/in** | 0.11/0.004 |
| | | **FACE AREA** | | **$m^2/ft^2$** | 0.62 / 6.63 |
| | | **ROW** | | | 2 |
| | | **FIN PER INCH** | | | 18 |
| **AIR QUALITY** | **FILTER** | **TYPE** | | | SARANET + IONIZER |
| | | **QUANTITY** | | **pc** | 3 X 3 |
| | | **SIZE** | **LENGTH** | **mm/in** | 330/13.0 |
| | | | **WIDTH** | **mm/in** | 317/12.4 |
| | | | **THICKNESS** | **mm/in** | 1.8/0.07 |
| | **NEGATIVE IONIZER** | | | | NO |
| **CASING** | **INDOOR UNIT** | | **MATERIAL** | | HIPS |
| | | | **COLOUR** | | IVORY |
| | **OUTDOOR UNIT** | | **MATERIAL** | | GALVANISED MILD STEEL |
| | | | **COLOUR** | | LIGHT GREY |

*1) ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE*

## Components Data - Heatpump (R410A)

| | | | | | | |
|---|---|---|---|---|---|---|
| **MODEL** | **INDOOR UNIT** | | | | **M5WM 007GR** | **M5WM 009GR** |
| | **OUTDOOR UNIT** | | | | **M5LC 007CR** | **M5LC 010CR** |
| **INDOOR FAN** | **TYPE** | | | | ANTI FUNGUS SKEW FAN | CROSS FLOW FAN |
| | **QUANTITY** | | | | 1 | |
| | **MATERIAL** | | | | ACRYLO NITRILE STYRENE | |
| | **DRIVE** | | | | DIRECT | |
| | **DIAMETER** | | | **mm/in** | 97/3.8 | |
| | **LENGTH** | | | **mm/in** | 617.5/24.3 | |
| **INDOOR FAN MOTOR** | **TYPE** | | | | INDUCTION | |
| | **QUANTITY** | | | | 1 | |
| | **INDEX OF PROTECTION (IP)** | | | | IP24 | |
| **OUTDOOR FAN** | **TYPE** | | | | PROPELLER | |
| | **QUANTITY** | | | | 1 | |
| | **MATERIAL** | | | | GLASS REINFORCED ACRYL STYRENE RESIN | |
| | **DRIVE** | | | | DIRECT | |
| | **DIAMETER** | | | **mm/in** | 356/14 | |
| **OUTDOOR FAN MOTOR** | **TYPE** | | | | INDUCTION | |
| | **QUANTITY** | | | | 1 | |
| | **INDEX OF PROTECTION (IP)** | | | | IP54 | |
| **COMPRESSOR** | **TYPE** | | | | ROTARY HERMETIC | |
| | **OIL TYPE** | | | | RB68A or Freol Alpha68M | |
| | **OIL AMOUNT** | | | **$cm^3$ / fl.oz.** | 300 / 10.5 | 350 / 12.3 |
| **INDOOR COIL** | **TUBE** | **MATERIAL** | | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | **DIAMETER** | | **mm/in** | 7.0 / 0.276 | |
| | | **THICKNESS** | | **mm/in** | 0.28 / 0.011 | |
| | **FIN** | **MATERIAL** | | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) | |
| | | **THICKNESS** | | **mm/in** | 0.11 / 0.0043 | |
| | | **FACE AREA** | | **$m^2/ft^2$** | 0.201 / 2.161 | |
| | | **ROW** | | | 2 | |
| | | **FIN PER INCH** | | | 18 | |
| **OUTDOOR COIL** | **TUBE** | **MATERIAL** | | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | **DIAMETER** | | **mm/in** | 9.52 / 3/8 | 7.0 / 0.276 |
| | | **THICKNESS** | | **mm/in** | 0.33 / 0.013 | 0.28 / 0.011 |
| | **FIN** | **MATERIAL** | | | ALUMINIUM (SLIT FIN) | RAISE LANCE |
| | | **THICKNESS** | | **mm/in** | 0.11/0.004 | 0.1/ 0.004 |
| | | **FACE AREA** | | **$m^2/ft^2$** | 0.31/3.40 | 0.193/ 2.112 |
| | | **ROW** | | | 1 | |
| | | **FIN PER INCH** | | | 18 | |
| **AIR QUALITY** | **FILTER** | **TYPE** | | | NANO FILTER | |
| | | **QUANTITY** | | **pc** | 2 | |
| | | **SIZE** | **LENGTH** | **mm/in** | 304/11.9 | |
| | | | **WIDTH** | **mm/in** | 298/11.7 | |
| | | | **THICKNESS** | **mm/in** | 1.5/0.06 | |
| | **NEGATIVE IONIZER** | | | | YES | |
| **CASING** | **INDOOR UNIT** | | **MATERIAL** | | HIPS | |
| | | | **COLOUR** | | IVORY | |
| | **OUTDOOR UNIT** | | **MATERIAL** | | GALVANISED MILD STEEL | |
| | | | **COLOUR** | | LIGHT GREY | |

*1) ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE*

## Components Data - Heatpump (R410A)

| | | | | | | |
|---|---|---|---|---|---|---|
| **MODEL** | **INDOOR UNIT** | | | | **M5WM 010GR** | **M5WM 015GR** |
| | **OUTDOOR UNIT** | | | | **M5LC 010CR** | **M5LC 015CR** |
| **INDOOR FAN** | **TYPE** | | | | ANTI FUNGUS SKEW FAN | CROSS FLOW FAN |
| | **QUANTITY** | | | | 1 | |
| | **MATERIAL** | | | | ACRYLO NITRILE STYRENE | |
| | **DRIVE** | | | | DIRECT | |
| | **DIAMETER** | | | **mm/in** | 97/3.8 | |
| | **LENGTH** | | | **mm/in** | 717.5/28.2 | |
| **INDOOR FAN MOTOR** | **TYPE** | | | | INDUCTION | |
| | **QUANTITY** | | | | 1 | |
| | **INDEX OF PROTECTION (IP)** | | | | IP24 | |
| **OUTDOOR FAN** | **TYPE** | | | | PROPELLER | |
| | **QUANTITY** | | | | 1 | |
| | **MATERIAL** | | | | GLASS REINFORCED ACRYL STYRENE RESIN | |
| | **DRIVE** | | | | DIRECT | |
| | **DIAMETER** | | | **mm/in** | 404/16 | |
| **OUTDOOR FAN MOTOR** | **TYPE** | | | | INDUCTION | |
| | **QUANTITY** | | | | 1 | |
| | **INDEX OF PROTECTION (IP)** | | | | IP54 | |
| **COMPRESSOR** | **TYPE** | | | | ROTARY HERMETIC | |
| | **OIL TYPE** | | | | RB68A or Freol Alpha68M | |
| | **OIL AMOUNT** | | | **$cm^3$ / fl.oz.** | 350 / 12.3 | 430 / 15.1 |
| **INDOOR COIL** | **TUBE** | **MATERIAL** | | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | **DIAMETER** | | **mm/in** | 7.0 / 0.276 | |
| | | **THICKNESS** | | **mm/in** | 0.28 / 0.011 | |
| | **FIN** | **MATERIAL** | | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) | |
| | | **THICKNESS** | | **mm/in** | 0.11 / 0.0043 | |
| | | **FACE AREA** | | **$m^2/ft^2$** | 0.234 / 2.516 | |
| | | **ROW** | | | 2 | |
| | | **FIN PER INCH** | | | 18 | |
| **OUTDOOR COIL** | **TUBE** | **MATERIAL** | | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | **DIAMETER** | | **mm/in** | 7.0 / 0.276 | 9.52 / 3/8 |
| | | **THICKNESS** | | **mm/in** | 0.28 / 0.011 | 0.33 / 0.013 |
| | **FIN** | **MATERIAL** | | | RAISE LANCE | ALUMINIUM (SLIT FIN) |
| | | **THICKNESS** | | **mm/in** | 0.1/ 0.004 | 0.11/0.004 |
| | | **FACE AREA** | | **$m^2/ft^2$** | 0.36/3.94 | |
| | | **ROW** | | | 1 | |
| | | **FIN PER INCH** | | | 18 | |
| **AIR QUALITY** | **FILTER** | **TYPE** | | | NANO FILTER | |
| | | **QUANTITY** | | **pc** | 2 | |
| | | **SIZE** | **LENGTH** | **mm/in** | 304/11.9 | |
| | | | **WIDTH** | **mm/in** | 348/13.7 | |
| | | | **THICKNESS** | **mm/in** | 1.5/0.06 | |
| | **NEGATIVE IONIZER** | | | | YES | |
| **CASING** | **INDOOR UNIT** | | **MATERIAL** | | HIPS | |
| | | | **COLOUR** | | IVORY | |
| | **OUTDOOR UNIT** | | **MATERIAL** | | GALVANISED MILD STEEL | |
| | | | **COLOUR** | | LIGHT GREY | |

*1) ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE*

## Components Data - Heatpump (R410A)

| | | | | | | |
|---|---|---|---|---|---|---|
| **MODEL** | **INDOOR UNIT** | | | | **M5WM 020GR** | **M5WM 025GR** |
| | **OUTDOOR UNIT** | | | | **M5LC 020CR** | **M5LC 025CR** |
| **INDOOR FAN** | **TYPE** | | | | CROSS FLOW FAN | |
| | **QUANTITY** | | | | 1 | |
| | **MATERIAL** | | | | ACRYLO NITRILE STYRENE | |
| | **DRIVE** | | | | DIRECT | |
| | **DIAMETER** | | | **mm/in** | 108/4.25 | |
| | **LENGTH** | | | **mm/in** | 810/31.9 | |
| **INDOOR FAN MOTOR** | **TYPE** | | | | INDUCTION | |
| | **QUANTITY** | | | | 1 | |
| | **INDEX OF PROTECTION (IP)** | | | | IP20 | |
| **OUTDOOR FAN** | **TYPE** | | | | PROPELLER | |
| | **QUANTITY** | | | | 1 | |
| | **MATERIAL** | | | | GLASS REINFORCED ACRYL STYRENE RESIN | |
| | **DRIVE** | | | | DIRECT | |
| | **DIAMETER** | | | **mm/in** | 457.2/18 | |
| **OUTDOOR FAN MOTOR** | **TYPE** | | | | INDUCTION | |
| | **QUANTITY** | | | | 1 | |
| | **INDEX OF PROTECTION (IP)** | | | | IP54 | |
| **COMPRESSOR** | **TYPE** | | | | ROTARY HERMETIC | |
| | **OIL TYPE** | | | | RB68A or Freol Alpha68M | |
| | **OIL AMOUNT** | | | **$cm^3$ / fl.oz.** | 670 / 23.5 | 1130 / 39.7 |
| **INDOOR COIL** | **TUBE** | **MATERIAL** | | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | **DIAMETER** | | **mm/in** | 7.0 / 0.276 | |
| | | **THICKNESS** | | **mm/in** | 0.28 / 0.011 | |
| | **FIN** | **MATERIAL** | | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) | |
| | | **THICKNESS** | | **mm/in** | 0.11 / 0.0043 | |
| | | **FACE AREA** | | **$m^2/ft^2$** | 0.269 / 2.900 | |
| | | **ROW** | | | 2 | |
| | | **FIN PER INCH** | | | 18 | |
| **OUTDOOR COIL** | **TUBE** | **MATERIAL** | | | SEAMLESS INNER GROOVE COPPER TUBE | |
| | | **DIAMETER** | | **mm/in** | 7.0 / 0.276 | |
| | | **THICKNESS** | | **mm/in** | 0.28 / 0.011 | |
| | **FIN** | **MATERIAL** | | | RAISE LANCE | |
| | | **THICKNESS** | | **mm/in** | 0.1 / 0.004 | |
| | | **FACE AREA** | | **$m^2/ft^2$** | 0.51 / 5.47 | 0.62 / 6.64 |
| | | **ROW** | | | 2 | |
| | | **FIN PER INCH** | | | 18 | |
| **AIR QUALITY** | **FILTER** | **TYPE** | | | NANO FILTER | |
| | | **QUANTITY** | | **pc** | 2 | |
| | | **SIZE** | **LENGTH** | **mm/in** | 351/13.8 | |
| | | | **WIDTH** | **mm/in** | 386/15.2 | |
| | | | **THICKNESS** | **mm/in** | 1.5/0.06 | |
| | **NEGATIVE IONIZER** | | | | YES | |
| **CASING** | **INDOOR UNIT** | | **MATERIAL** | | HIPS | |
| | | | **COLOUR** | | IVORY | |
| | **OUTDOOR UNIT** | | **MATERIAL** | | GALVANISED MILD STEEL | |
| | | | **COLOUR** | | LIGHT GREY | |

*1) ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE*

## Components Data - Heatpump (R410A)

| | | | | | |
|---|---|---|---|---|---|
| **MODEL** | **INDOOR UNIT** | | | | **M5WM 030FR** |
| | **OUTDOOR UNIT** | | | | **M5LC 028CR** |
| **INDOOR FAN** | **TYPE** | | | | ANTI FUNGUS CROSS FLOW FAN |
| | **QUANTITY** | | | | 1 |
| | **MATERIAL** | | | | ACRYLO NITRILE STYRENE |
| | **DRIVE** | | | | DIRECT |
| | **DIAMETER** | | | **mm/in** | 106 / 4.17 |
| | **LENGTH** | | | **mm/in** | 950 / 37.4 |
| **INDOOR FAN MOTOR** | **TYPE** | | | | INDUCTION |
| | **QUANTITY** | | | | 1 |
| | **INDEX OF PROTECTION (IP)** | | | | IP24 |
| **OUTDOOR FAN** | **TYPE** | | | | PROPELLER |
| | **QUANTITY** | | | | 1 |
| | **MATERIAL** | | | | GLASS REINFORCED ACRYL STYRENE RESIN |
| | **DRIVE** | | | | DIRECT |
| | **DIAMETER** | | | **mm/in** | 457.2/18 |
| **OUTDOOR FAN MOTOR** | **TYPE** | | | | INDUCTION |
| | **QUANTITY** | | | | 1 |
| | **INDEX OF PROTECTION (IP)** | | | | IP54 |
| **COMPRESSOR** | **TYPE** | | | | ROTARY HERMETIC |
| | **OIL TYPE** | | | | RB68A or Freol Alpha68M |
| | **OIL AMOUNT** | | | **$cm^3$ / fl.oz.** | 1130 / 39.7 |
| **INDOOR COIL** | **TUBE** | **MATERIAL** | | | SEAMLESS INNER GROOVE COPPER TUBE |
| | | **DIAMETER** | | **mm/in** | 7.0 / 0.276 |
| | | **THICKNESS** | | **mm/in** | 0.28 / 0.011 |
| | **FIN** | **MATERIAL** | | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) |
| | | **THICKNESS** | | **mm/in** | 0.11 / 0.0043 |
| | | **FACE AREA** | | **$m^2/ft^2$** | 0.30 / 3.23 |
| | | **ROW** | | | 2 |
| | | **FIN PER INCH** | | | 18 |
| **OUTDOOR COIL** | **TUBE** | **MATERIAL** | | | SEAMLESS INNER GROOVE COPPER TUBE |
| | | **DIAMETER** | | **mm/in** | 7.0 / 0.276 |
| | | **THICKNESS** | | **mm/in** | 0.28 / 0.011 |
| | **FIN** | **MATERIAL** | | | ALUMINIUM (CORR. FIN) |
| | | **THICKNESS** | | **mm/in** | 0.11/0.004 |
| | | **FACE AREA** | | **$m^2/ft^2$** | 0.62 / 6.63 |
| | | **ROW** | | | 2 |
| | | **FIN PER INCH** | | | 18 |
| **AIR QUALITY** | **FILTER** | **TYPE** | | | SARANET + IONIZER |
| | | **QUANTITY** | | **pc** | 3 X 3 |
| | | **SIZE** | **LENGTH** | **mm/in** | 330/13.0 |
| | | | **WIDTH** | **mm/in** | 317/12.4 |
| | | | **THICKNESS** | **mm/in** | 1.8/0.07 |
| | **NEGATIVE IONIZER** | | | | NO |
| **CASING** | **INDOOR UNIT** | | **MATERIAL** | | HIPS |
| | | | **COLOUR** | | IVORY |
| | **OUTDOOR UNIT** | | **MATERIAL** | | GALVANISED MILD STEEL |
| | | | **COLOUR** | | LIGHT GREY |

*1) ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE*

# Performance Table

*Interpolation* and *Extrapolation* method can be used to get the total capacity, TC and sensible capacity, SC at those temperatures which are not stated out in the table.

**Example:**

**Model:** MWM 010G / MLC 010C
**Indoor Condition:** 23°C DB, 15°C WB
**Outdoor Condition:** 37°C DB

**Solution:**

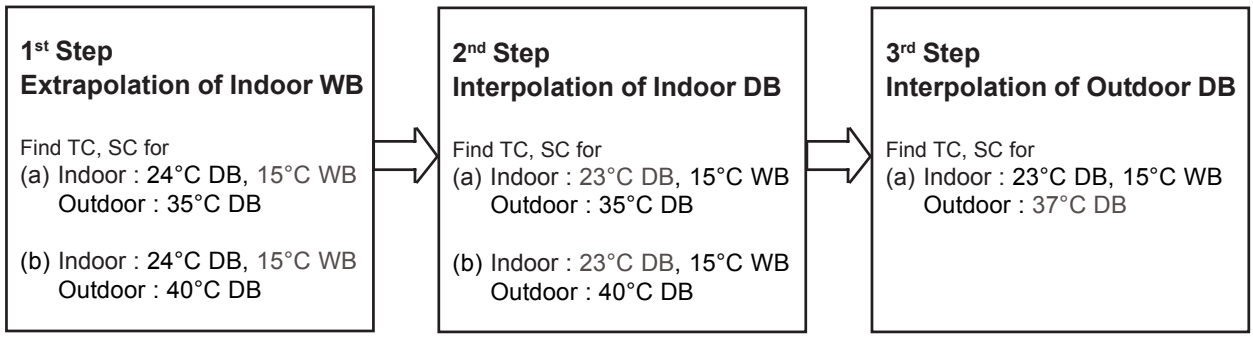
**Overall**
Based on the Performance table of MWM 010G / MLC 010C

1. Refer to the Indoor DB column,
   - **23°C** is located between 20°C and 24°C (Thus, Interpolation need to be applied)

2. Refer to the Indoor WB column,
   - **15°C** only available in the case of Indoor DB = 20°C. (Thus, Extrapolation between 16°C WB and 17°C WB during 24°C indoor DB is required)

3. Refer to the Outdoor DB column,
   - **37°C** is located between 35°C and 40°C. (Thus, Interpolation need to be applied)

Please follow the steps below in order to get the required capacity.


1st Step
Extrapolation of Indoor WB
Find TC, SC for
(a) Indoor : 24°C DB, 15°C WB
Outdoor : 35°C DB
(b) Indoor : 24°C DB, 15°C WB
Outdoor : 40°C DB
2nd Step
Interpolation of Indoor DB
Find TC, SC for
(a) Indoor : 23°C DB, 15°C WB
Outdoor : 35°C DB
(b) Indoor : 23°C DB, 15°C WB
Outdoor : 40°C DB
3rd Step
Interpolation of Outdoor DB
Find TC, SC for
(a) Indoor : 23°C DB, 15°C WB
Outdoor : 37°C DB

**Details:**

**1st Step:**

To obtain the Total capacity and Sensible capacity for

**(a) Indoor Condition:** 24°C DB, 15°C WB

**Outdoor Condition:** 35°C DB

| Indoor DB ° C | Indoor WB ° C | Outdoor DB ° C | | | |
|---|---|---|---|---|---|
| | | | 35 | | |
| | | | TC (kW) | SC (kW) | |
| | | | | | |
| 24 | 15 | | $x_1$ | $y_1$ | |
| | 16 | | 2.623 | 1.892 | |
| | 17 | | 2.687 | 1.794 | |

Total capacity, TC

$\Rightarrow$ $x_1$ = 2.558kW *(Same as Total capacity at 20°C Indoor DB / 15°C Indoor WB & 35°C Outdoor WB)**

Sensible capacity, SC

Extrapolation Method:

$$\Rightarrow \frac{17°C - 15°C}{17°C - 16°C} = \frac{1.794kW - y_1}{1.794kW - 1.892kW}$$

$\Rightarrow$ $y_1$ = 1.990kW

**(b) Indoor Condition:** 24°C DB, 15°C WB

**Outdoor Condition:** 40°C DB

| Indoor DB ° C | Indoor WB ° C | Outdoor DB ° C | | | |
|---|---|---|---|---|---|
| | | | 40 | | |
| | | | TC (kW) | SC (kW) | |
| | | | | | |
| 24 | 15 | | $x_2$ | $y_2$ | |
| | 16 | | 2.429 | 1.728 | |
| | 17 | | 2.502 | 1.653 | |

Total capacity, TC

$\Rightarrow$ $x_2$ = 2.355kW *(Same as Total capacity at 20°C Indoor DB / 15°C Indoor WB & 40°C Outdoor WB)**

Sensible capacity, SC

Extrapolation Method:

$$\Rightarrow \frac{17°C - 15°C}{17°C - 16°C} = \frac{1.653kW - y_2}{1.653kW - 1.728kW}$$

$\Rightarrow$ $y_2$ = 1.802kW

** This is due to 2 different conditions with same WB temperature, will have the same level of enthalpy. For more details, please refer to psychrometrics chart*

**2nd Step:**

To obtain the Total capacity and Sensible capacity for

**(a) Indoor Condition:** 23°C DB, 15°C WB
**Outdoor Condition:** 35°C DB

| Indoor DB ° C | Indoor WB ° C | Outdoor DB ° C | | | |
|---|---|---|---|---|---|
| | | | 35 | | |
| | | | TC (kW) | SC (kW) | |
| | | | | | |
| **20** | **15** | | 2.558 | 1.403 | |
| **23** | **15** | | $x_3$ | $y_3$ | |
| **24** | **15** | | 2.558 | 1.990 | |

Total capacity, TC

$\Rightarrow$ $x_3$ = 2.558kW *(Same as Total capacity at 20°C Indoor DB / 15°C Indoor WB & 35°C Outdoor WB)**

Sensible capacity, SC

Interpolation Method:

$$\Rightarrow \frac{24°C - 20°C}{24°C - 23°C} = \frac{1.990kW - 1.403kW}{1.990kW - y_3}$$

$\Rightarrow$ $y_3$ = 1.844kW

**(b) Indoor Condition:** 23°C DB, 15°C WB

**Outdoor Condition:** 40°C DB

| Indoor DB ° C | Indoor WB ° C | Outdoor DB ° C | | | |
|---|---|---|---|---|---|
| | | | 40 | | |
| | | | TC (kW) | SC (kW) | |
| | | | | | |
| **20** | **15** | | 2.355 | 1.215 | |
| **23** | **15** | | $x_4$ | $y_4$ | |
| **24** | **15** | | 2.355 | 1.802 | |

Total capacity, TC

$\Rightarrow$ $x_4$ = 2.355kW *(Same as Total capacity at 20°C Indoor DB / 15°C Indoor WB & 40°C Outdoor WB)**

Sensible capacity, SC

Interpolation Method:

$$\Rightarrow \frac{24°C - 20°C}{24°C - 23°C} = \frac{1.802kW - 1.215kW}{1.802kW - y_4}$$

$\Rightarrow$ $y_4$ = 1.655kW

** This is due to 2 different conditions with same WB temperature will have the same level of enthalpy. For more details, please refer to psychrometrics chart*

**3rd Step:**

To obtain the Total capacity and Sensible capacity for

**(a) Indoor Condition:** 23°C DB, 15°C WB

**Outdoor Condition:** 37°C DB

| Indoor DB ° C | Indoor WB ° C | Outdoor DB ° C | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 35 | | 37 | | 40 | |
| | | | TC (kW) | SC (kW) | TC (kW) | SC (kW) | TC (kW) | SC (kW) |
| | | | | | | | | |
| **23** | **15** | - - - - - | 2.558 | 1.844 | **x** | **y** | 2.355 | 1.655 |

Total capacity, TC

Interpolation Method:

$$\Rightarrow \frac{40°C - 35°C}{40°C - 37°C} = \frac{2.355kW - 2.558kW}{2.355kW - x}$$

$$\Rightarrow x = 2.477kW$$

Sensible capacity, SC

Interpolation Method:

$$\Rightarrow \frac{40°C - 35°C}{40°C - 37°C} = \frac{1.655kW - 1.844kW}{1.655kW - y}$$

$$\Rightarrow y = 1.768kW$$

## R22 Models
## (Cooling Only)

## MODEL : MWM 007G / MLC 007C

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 2.418 | 1.484 | 2.249 | 1.335 | 2.080 | 1.186 | 1.910 | 1.037 | 1.741 | 0.889 | 1.538 | 0.710 |
| | 16 | 2.453 | 1.349 | 2.286 | 1.221 | 2.119 | 1.094 | 1.952 | 0.966 | 1.785 | 0.839 | 1.585 | 0.686 |
| 24 | 16 | 2.453 | 1.799 | 2.286 | 1.671 | 2.119 | 1.544 | 1.952 | 1.416 | 1.785 | 1.288 | 1.585 | 1.135 |
| | 17 | 2.488 | 1.664 | 2.323 | 1.558 | 2.159 | 1.451 | 1.994 | 1.345 | 1.829 | 1.239 | 1.632 | 1.111 |
| | 18 | 2.523 | 1.529 | 2.360 | 1.444 | 2.198 | 1.359 | 2.036 | 1.274 | 1.873 | 1.189 | 1.679 | 1.087 |
| | 19 | 2.557 | 1.394 | 2.397 | 1.331 | 2.237 | 1.267 | 2.077 | 1.203 | 1.917 | 1.139 | 1.725 | 1.062 |
| | 20 | 2.593 | 1.259 | 2.437 | 1.210 | 2.281 | 1.162 | 2.126 | 1.113 | 1.970 | 1.064 | 1.783 | 1.006 |
| 28 | 18 | 2.523 | 1.979 | 2.360 | 1.894 | 2.198 | 1.809 | 2.036 | 1.724 | 1.873 | 1.638 | 1.679 | 1.536 |
| | 19 | 2.557 | 1.844 | 2.397 | 1.780 | 2.237 | 1.716 | 2.077 | 1.652 | 1.917 | 1.589 | 1.725 | 1.512 |
| | 20 | 2.593 | 1.709 | 2.437 | 1.660 | 2.281 | 1.611 | 2.126 | 1.563 | 1.970 | 1.514 | 1.783 | 1.456 |
| | 21 | 2.628 | 1.573 | 2.478 | 1.535 | 2.328 | 1.498 | 2.179 | 1.460 | 2.029 | 1.423 | 1.849 | 1.378 |
| | 22 | 2.663 | 1.437 | 2.519 | 1.411 | 2.375 | 1.384 | 2.231 | 1.358 | 2.087 | 1.332 | 1.915 | 1.300 |
| | 23 | 2.699 | 1.301 | 2.560 | 1.286 | 2.422 | 1.271 | 2.284 | 1.256 | 2.146 | 1.241 | 1.980 | 1.223 |
| | 24 | 2.734 | 1.165 | 2.602 | 1.161 | 2.469 | 1.157 | 2.337 | 1.154 | 2.205 | 1.150 | 2.046 | 1.145 |
| 30 | 20 | 2.593 | 1.934 | 2.437 | 1.885 | 2.281 | 1.836 | 2.126 | 1.788 | 1.970 | 1.739 | 1.783 | 1.680 |
| | 21 | 2.628 | 1.798 | 2.478 | 1.760 | 2.328 | 1.723 | 2.179 | 1.685 | 2.029 | 1.648 | 1.849 | 1.603 |
| | 22 | 2.663 | 1.662 | 2.519 | 1.636 | 2.375 | 1.609 | 2.231 | 1.583 | 2.087 | 1.557 | 1.915 | 1.525 |
| | 23 | 2.699 | 1.526 | 2.560 | 1.511 | 2.422 | 1.496 | 2.284 | 1.481 | 2.146 | 1.466 | 1.980 | 1.448 |
| | 24 | 2.734 | 1.390 | 2.602 | 1.386 | 2.469 | 1.382 | 2.337 | 1.379 | 2.205 | 1.375 | 2.046 | 1.370 |

## MODEL : MWM 009G / MLC 009C

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 3.034 | 1.916 | 2.829 | 1.742 | 2.623 | 1.568 | 2.418 | 1.393 | 2.213 | 1.219 | 1.966 | 1.010 |
| | 16 | 3.114 | 1.748 | 2.903 | 1.597 | 2.692 | 1.445 | 2.480 | 1.294 | 2.269 | 1.142 | 2.016 | 0.961 |
| 24 | 16 | 3.114 | 2.257 | 2.903 | 2.105 | 2.692 | 1.954 | 2.480 | 1.802 | 2.269 | 1.651 | 2.016 | 1.469 |
| | 17 | 3.194 | 2.088 | 2.977 | 1.960 | 2.760 | 1.831 | 2.543 | 1.703 | 2.326 | 1.574 | 2.065 | 1.420 |
| | 18 | 3.274 | 1.920 | 3.051 | 1.815 | 2.828 | 1.709 | 2.605 | 1.603 | 2.382 | 1.497 | 2.115 | 1.371 |
| | 19 | 3.354 | 1.752 | 3.125 | 1.669 | 2.896 | 1.586 | 2.668 | 1.504 | 2.439 | 1.421 | 2.164 | 1.321 |
| | 20 | 3.435 | 1.583 | 3.205 | 1.519 | 2.976 | 1.454 | 2.747 | 1.389 | 2.517 | 1.324 | 2.242 | 1.246 |
| 28 | 18 | 3.274 | 2.429 | 3.051 | 2.323 | 2.828 | 2.217 | 2.605 | 2.112 | 2.382 | 2.006 | 2.115 | 1.879 |
| | 19 | 3.354 | 2.261 | 3.125 | 2.178 | 2.896 | 2.095 | 2.668 | 2.012 | 2.439 | 1.929 | 2.164 | 1.830 |
| | 20 | 3.435 | 2.092 | 3.205 | 2.027 | 2.976 | 1.962 | 2.747 | 1.897 | 2.517 | 1.833 | 2.242 | 1.755 |
| | 21 | 3.516 | 1.923 | 3.289 | 1.873 | 3.063 | 1.823 | 2.837 | 1.773 | 2.611 | 1.723 | 2.339 | 1.663 |
| | 22 | 3.597 | 1.754 | 3.374 | 1.719 | 3.150 | 1.683 | 2.927 | 1.648 | 2.704 | 1.613 | 2.436 | 1.571 |
| | 23 | 3.678 | 1.585 | 3.458 | 1.564 | 3.238 | 1.544 | 3.018 | 1.524 | 2.798 | 1.503 | 2.533 | 1.479 |
| | 24 | 3.759 | 1.416 | 3.542 | 1.410 | 3.325 | 1.404 | 3.108 | 1.399 | 2.891 | 1.393 | 2.631 | 1.387 |
| 30 | 20 | 3.435 | 2.346 | 3.205 | 2.281 | 2.976 | 2.216 | 2.747 | 2.152 | 2.517 | 2.087 | 2.242 | 2.009 |
| | 21 | 3.516 | 2.177 | 3.289 | 2.127 | 3.063 | 2.077 | 2.837 | 2.027 | 2.611 | 1.977 | 2.339 | 1.917 |
| | 22 | 3.597 | 2.008 | 3.374 | 1.973 | 3.150 | 1.938 | 2.927 | 1.902 | 2.704 | 1.867 | 2.436 | 1.825 |
| | 23 | 3.678 | 1.839 | 3.458 | 1.819 | 3.238 | 1.798 | 3.018 | 1.778 | 2.798 | 1.757 | 2.533 | 1.733 |
| | 24 | 3.759 | 1.670 | 3.542 | 1.664 | 3.325 | 1.659 | 3.108 | 1.653 | 2.891 | 1.648 | 2.631 | 1.641 |

## R22 Models
## (Cooling only)

## MODEL : MWM 010G / MLC 010C

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 3.169 | 1.968 | 2.966 | 1.780 | 2.762 | 1.592 | 2.558 | 1.403 | 2.355 | 1.215 | 2.111 | 0.989 |
| | 16 | 3.206 | 1.800 | 3.012 | 1.635 | 2.817 | 1.470 | 2.623 | 1.306 | 2.429 | 1.141 | 2.195 | 0.943 |
| 24 | 16 | 3.206 | 2.386 | 3.012 | 2.222 | 2.817 | 2.057 | 2.623 | 1.892 | 2.429 | 1.728 | 2.195 | 1.530 |
| | 17 | 3.243 | 2.218 | 3.058 | 2.077 | 2.872 | 1.936 | 2.687 | 1.794 | 2.502 | 1.653 | 2.280 | 1.484 |
| | 18 | 3.280 | 2.049 | 3.104 | 1.932 | 2.928 | 1.814 | 2.752 | 1.697 | 2.576 | 1.579 | 2.364 | 1.438 |
| | 19 | 3.317 | 1.881 | 3.150 | 1.787 | 2.983 | 1.693 | 2.816 | 1.599 | 2.649 | 1.505 | 2.449 | 1.392 |
| | 20 | 3.353 | 1.711 | 3.193 | 1.635 | 3.033 | 1.559 | 2.873 | 1.483 | 2.713 | 1.407 | 2.521 | 1.315 |
| 28 | 18 | 3.280 | 2.636 | 3.104 | 2.518 | 2.928 | 2.401 | 2.752 | 2.283 | 2.576 | 2.166 | 2.364 | 2.025 |
| | 19 | 3.317 | 2.467 | 3.150 | 2.373 | 2.983 | 2.279 | 2.816 | 2.186 | 2.649 | 2.092 | 2.449 | 1.979 |
| | 20 | 3.353 | 2.298 | 3.193 | 2.222 | 3.033 | 2.146 | 2.873 | 2.070 | 2.713 | 1.993 | 2.521 | 1.902 |
| | 21 | 3.389 | 2.128 | 3.235 | 2.066 | 3.080 | 2.004 | 2.925 | 1.942 | 2.771 | 1.879 | 2.585 | 1.805 |
| | 22 | 3.426 | 1.959 | 3.276 | 1.910 | 3.127 | 1.862 | 2.978 | 1.814 | 2.828 | 1.765 | 2.649 | 1.707 |
| | 23 | 3.462 | 1.789 | 3.318 | 1.754 | 3.174 | 1.720 | 3.030 | 1.686 | 2.886 | 1.651 | 2.713 | 1.610 |
| | 24 | 3.499 | 1.619 | 3.360 | 1.599 | 3.221 | 1.578 | 3.082 | 1.558 | 2.943 | 1.537 | 2.776 | 1.513 |
| 30 | 20 | 3.353 | 2.591 | 3.193 | 2.515 | 3.033 | 2.439 | 2.873 | 2.363 | 2.713 | 2.287 | 2.521 | 2.195 |
| | 21 | 3.389 | 2.422 | 3.235 | 2.359 | 3.080 | 2.297 | 2.925 | 2.235 | 2.771 | 2.173 | 2.585 | 2.098 |
| | 22 | 3.426 | 2.252 | 3.276 | 2.204 | 3.127 | 2.155 | 2.978 | 2.107 | 2.828 | 2.059 | 2.649 | 2.001 |
| | 23 | 3.462 | 2.082 | 3.318 | 2.048 | 3.174 | 2.013 | 3.030 | 1.979 | 2.886 | 1.945 | 2.713 | 1.903 |
| | 24 | 3.499 | 1.912 | 3.360 | 1.892 | 3.221 | 1.872 | 3.082 | 1.851 | 2.943 | 1.831 | 2.776 | 1.806 |

## MODEL : MWM 015G / MLC 015C

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 4.051 | 2.628 | 3.785 | 2.373 | 3.519 | 2.118 | 3.253 | 1.863 | 2.987 | 1.608 | 2.668 | 1.302 |
| | 16 | 4.086 | 2.387 | 3.834 | 2.156 | 3.582 | 1.925 | 3.330 | 1.694 | 3.078 | 1.464 | 2.776 | 1.186 |
| 24 | 16 | 4.086 | 3.056 | 3.834 | 2.825 | 3.582 | 2.594 | 3.330 | 2.363 | 3.078 | 2.133 | 2.776 | 1.855 |
| | 17 | 4.120 | 2.815 | 3.882 | 2.608 | 3.645 | 2.402 | 3.407 | 2.195 | 3.169 | 1.988 | 2.884 | 1.740 |
| | 18 | 4.155 | 2.574 | 3.931 | 2.392 | 3.707 | 2.209 | 3.484 | 2.026 | 3.260 | 1.843 | 2.991 | 1.624 |
| | 19 | 4.189 | 2.333 | 3.980 | 2.175 | 3.770 | 2.016 | 3.560 | 1.858 | 3.351 | 1.699 | 3.099 | 1.509 |
| | 20 | 4.223 | 2.093 | 4.025 | 1.961 | 3.826 | 1.830 | 3.627 | 1.699 | 3.428 | 1.568 | 3.190 | 1.410 |
| 28 | 18 | 4.155 | 3.243 | 3.931 | 3.061 | 3.707 | 2.878 | 3.484 | 2.695 | 3.260 | 2.513 | 2.991 | 2.293 |
| | 19 | 4.189 | 3.002 | 3.980 | 2.844 | 3.770 | 2.685 | 3.560 | 2.527 | 3.351 | 2.368 | 3.099 | 2.178 |
| | 20 | 4.223 | 2.762 | 4.025 | 2.631 | 3.826 | 2.499 | 3.627 | 2.368 | 3.428 | 2.237 | 3.190 | 2.079 |
| | 21 | 4.257 | 2.521 | 4.067 | 2.420 | 3.877 | 2.318 | 3.687 | 2.216 | 3.498 | 2.115 | 3.270 | 1.993 |
| | 22 | 4.291 | 2.281 | 4.110 | 2.209 | 3.929 | 2.137 | 3.748 | 2.065 | 3.567 | 1.993 | 3.349 | 1.906 |
| | 23 | 4.325 | 2.041 | 4.153 | 1.998 | 3.980 | 1.956 | 3.808 | 1.913 | 3.636 | 1.871 | 3.429 | 1.819 |
| | 24 | 4.359 | 1.801 | 4.195 | 1.788 | 4.032 | 1.775 | 3.868 | 1.761 | 3.705 | 1.748 | 3.508 | 1.733 |
| 30 | 20 | 4.223 | 3.096 | 4.025 | 2.965 | 3.826 | 2.834 | 3.627 | 2.703 | 3.428 | 2.571 | 3.190 | 2.414 |
| | 21 | 4.257 | 2.856 | 4.067 | 2.754 | 3.877 | 2.653 | 3.687 | 2.551 | 3.498 | 2.449 | 3.270 | 2.327 |
| | 22 | 4.291 | 2.616 | 4.110 | 2.544 | 3.929 | 2.471 | 3.748 | 2.399 | 3.567 | 2.327 | 3.349 | 2.241 |
| | 23 | 4.325 | 2.375 | 4.153 | 2.333 | 3.980 | 2.290 | 3.808 | 2.248 | 3.636 | 2.205 | 3.429 | 2.154 |
| | 24 | 4.359 | 2.135 | 4.195 | 2.122 | 4.032 | 2.109 | 3.868 | 2.096 | 3.705 | 2.083 | 3.508 | 2.067 |

## R22 Models
## (Cooling only)

## MODEL : MWM 020G / MLC 018C

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 5.954 | 3.645 | 5.566 | 3.311 | 5.179 | 2.977 | 4.791 | 2.642 | 4.404 | 2.308 | 3.939 | 1.907 |
| | 16 | 6.132 | 3.309 | 5.730 | 3.009 | 5.329 | 2.709 | 4.927 | 2.409 | 4.525 | 2.109 | 4.043 | 1.749 |
| 24 | 16 | 6.132 | 4.352 | 5.730 | 4.052 | 5.329 | 3.752 | 4.927 | 3.451 | 4.525 | 3.151 | 4.043 | 2.791 |
| | 17 | 6.310 | 4.016 | 5.894 | 3.750 | 5.478 | 3.484 | 5.062 | 3.218 | 4.646 | 2.952 | 4.147 | 2.633 |
| | 18 | 6.488 | 3.680 | 6.058 | 3.448 | 5.628 | 3.216 | 5.198 | 2.985 | 4.767 | 2.753 | 4.251 | 2.475 |
| | 19 | 6.667 | 3.344 | 6.222 | 3.147 | 5.778 | 2.949 | 5.333 | 2.751 | 4.888 | 2.554 | 4.355 | 2.317 |
| | 20 | 6.846 | 3.008 | 6.397 | 2.846 | 5.947 | 2.684 | 5.498 | 2.521 | 5.049 | 2.359 | 4.510 | 2.164 |
| 28 | 18 | 6.488 | 4.723 | 6.058 | 4.491 | 5.628 | 4.259 | 5.198 | 4.027 | 4.767 | 3.795 | 4.251 | 3.517 |
| | 19 | 6.667 | 4.387 | 6.222 | 4.189 | 5.778 | 3.991 | 5.333 | 3.794 | 4.888 | 3.596 | 4.355 | 3.359 |
| | 20 | 6.846 | 4.051 | 6.397 | 3.889 | 5.947 | 3.726 | 5.498 | 3.564 | 5.049 | 3.401 | 4.510 | 3.206 |
| | 21 | 7.026 | 3.715 | 6.578 | 3.589 | 6.131 | 3.462 | 5.683 | 3.336 | 5.235 | 3.209 | 4.698 | 3.058 |
| | 22 | 7.206 | 3.380 | 6.760 | 3.289 | 6.314 | 3.199 | 5.868 | 3.108 | 5.422 | 3.017 | 4.886 | 2.909 |
| | 23 | 7.386 | 3.044 | 6.942 | 2.989 | 6.497 | 2.935 | 6.053 | 2.880 | 5.608 | 2.826 | 5.075 | 2.760 |
| | 24 | 7.567 | 2.708 | 7.124 | 2.689 | 6.681 | 2.671 | 6.238 | 2.652 | 5.795 | 2.634 | 5.263 | 2.611 |
| 30 | 20 | 6.846 | 4.572 | 6.397 | 4.410 | 5.947 | 4.247 | 5.498 | 4.085 | 5.049 | 3.923 | 4.510 | 3.728 |
| | 21 | 7.026 | 4.236 | 6.578 | 4.110 | 6.131 | 3.984 | 5.683 | 3.857 | 5.235 | 3.731 | 4.698 | 3.579 |
| | 22 | 7.206 | 3.901 | 6.760 | 3.810 | 6.314 | 3.720 | 5.868 | 3.629 | 5.422 | 3.539 | 4.886 | 3.430 |
| | 23 | 7.386 | 3.565 | 6.942 | 3.511 | 6.497 | 3.456 | 6.053 | 3.401 | 5.608 | 3.347 | 5.075 | 3.281 |
| | 24 | 7.567 | 3.229 | 7.124 | 3.211 | 6.681 | 3.192 | 6.238 | 3.174 | 5.795 | 3.155 | 5.263 | 3.133 |

## MODEL : MWM 020G / MLC 020C

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 5.778 | 3.640 | 5.473 | 3.396 | 5.169 | 3.153 | 4.864 | 2.909 | 4.559 | 2.666 | 4.194 | 2.373 |
| | 16 | 6.026 | 3.334 | 5.701 | 3.125 | 5.376 | 2.917 | 5.051 | 2.709 | 4.726 | 2.501 | 4.336 | 2.251 |
| 24 | 16 | 6.026 | 4.248 | 5.701 | 4.040 | 5.376 | 3.832 | 5.051 | 3.624 | 4.726 | 3.416 | 4.336 | 3.166 |
| | 17 | 6.274 | 3.942 | 5.929 | 3.770 | 5.583 | 3.597 | 5.238 | 3.424 | 4.892 | 3.252 | 4.478 | 3.044 |
| | 18 | 6.523 | 3.636 | 6.157 | 3.499 | 5.791 | 3.362 | 5.425 | 3.224 | 5.059 | 3.087 | 4.620 | 2.922 |
| | 19 | 6.771 | 3.330 | 6.384 | 3.228 | 5.998 | 3.126 | 5.612 | 3.025 | 5.225 | 2.923 | 4.762 | 2.800 |
| | 20 | 7.019 | 3.023 | 6.614 | 2.947 | 6.210 | 2.870 | 5.805 | 2.794 | 5.400 | 2.718 | 4.915 | 2.626 |
| 28 | 18 | 6.523 | 4.551 | 6.157 | 4.414 | 5.791 | 4.276 | 5.425 | 4.139 | 5.059 | 4.002 | 4.620 | 3.837 |
| | 19 | 6.771 | 4.245 | 6.384 | 4.143 | 5.998 | 4.041 | 5.612 | 3.939 | 5.225 | 3.837 | 4.762 | 3.715 |
| | 20 | 7.019 | 3.938 | 6.614 | 3.861 | 6.210 | 3.785 | 5.805 | 3.709 | 5.400 | 3.633 | 4.915 | 3.541 |
| | 21 | 7.268 | 3.630 | 6.846 | 3.572 | 6.424 | 3.515 | 6.003 | 3.458 | 5.581 | 3.401 | 5.075 | 3.332 |
| | 22 | 7.516 | 3.321 | 7.077 | 3.283 | 6.639 | 3.245 | 6.200 | 3.207 | 5.761 | 3.169 | 5.235 | 3.123 |
| | 23 | 7.765 | 3.013 | 7.309 | 2.994 | 6.853 | 2.975 | 6.398 | 2.956 | 5.942 | 2.937 | 5.395 | 2.914 |
| | 24 | 8.013 | 2.705 | 7.541 | 2.705 | 7.068 | 2.705 | 6.595 | 2.705 | 6.123 | 2.705 | 5.556 | 2.705 |
| 30 | 20 | 7.019 | 4.395 | 6.614 | 4.319 | 6.210 | 4.242 | 5.805 | 4.166 | 5.400 | 4.090 | 4.915 | 3.998 |
| | 21 | 7.268 | 4.087 | 6.846 | 4.030 | 6.424 | 3.973 | 6.003 | 3.915 | 5.581 | 3.858 | 5.075 | 3.789 |
| | 22 | 7.516 | 3.779 | 7.077 | 3.741 | 6.639 | 3.703 | 6.200 | 3.664 | 5.761 | 3.626 | 5.235 | 3.581 |
| | 23 | 7.765 | 3.471 | 7.309 | 3.452 | 6.853 | 3.433 | 6.398 | 3.414 | 5.942 | 3.394 | 5.395 | 3.372 |
| | 24 | 8.013 | 3.163 | 7.541 | 3.163 | 7.068 | 3.163 | 6.595 | 3.163 | 6.123 | 3.163 | 5.556 | 3.163 |

## R22 Models
## (Cooling only)

## MODEL : MWM 025G / MLC 025C

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 7.657 | 5.145 | 7.196 | 4.692 | 6.735 | 4.238 | 6.275 | 3.785 | 5.814 | 3.331 | 5.261 | 2.787 |
| | 16 | 7.728 | 4.693 | 7.300 | 4.280 | 6.873 | 3.867 | 6.446 | 3.454 | 6.019 | 3.042 | 5.507 | 2.546 |
| 24 | 16 | 7.728 | 5.852 | 7.300 | 5.439 | 6.873 | 5.026 | 6.446 | 4.614 | 6.019 | 4.201 | 5.507 | 3.705 |
| | 17 | 7.798 | 5.400 | 7.405 | 5.028 | 7.011 | 4.656 | 6.618 | 4.283 | 6.224 | 3.911 | 5.752 | 3.464 |
| | 18 | 7.869 | 4.948 | 7.509 | 4.617 | 7.149 | 4.285 | 6.789 | 3.953 | 6.430 | 3.621 | 5.998 | 3.223 |
| | 19 | 7.940 | 4.496 | 7.613 | 4.205 | 7.287 | 3.914 | 6.961 | 3.623 | 6.635 | 3.332 | 6.243 | 2.982 |
| | 20 | 8.008 | 4.045 | 7.701 | 3.803 | 7.394 | 3.560 | 7.086 | 3.318 | 6.779 | 3.075 | 6.410 | 2.784 |
| 28 | 18 | 7.869 | 6.107 | 7.509 | 5.776 | 7.149 | 5.444 | 6.789 | 5.112 | 6.430 | 4.781 | 5.998 | 4.383 |
| | 19 | 7.940 | 5.655 | 7.613 | 5.364 | 7.287 | 5.073 | 6.961 | 4.782 | 6.635 | 4.491 | 6.243 | 4.142 |
| | 20 | 8.008 | 5.205 | 7.701 | 4.962 | 7.394 | 4.720 | 7.086 | 4.477 | 6.779 | 4.235 | 6.410 | 3.944 |
| | 21 | 8.076 | 4.754 | 7.778 | 4.566 | 7.479 | 4.377 | 7.181 | 4.189 | 6.883 | 4.000 | 6.525 | 3.774 |
| | 22 | 8.144 | 4.304 | 7.855 | 4.169 | 7.565 | 4.035 | 7.276 | 3.900 | 6.986 | 3.766 | 6.639 | 3.604 |
| | 23 | 8.212 | 3.854 | 7.931 | 3.773 | 7.651 | 3.693 | 7.370 | 3.612 | 7.090 | 3.532 | 6.754 | 3.435 |
| | 24 | 8.279 | 3.403 | 8.008 | 3.377 | 7.737 | 3.350 | 7.465 | 3.324 | 7.194 | 3.297 | 6.868 | 3.265 |
| 30 | 20 | 8.008 | 5.784 | 7.701 | 5.542 | 7.394 | 5.299 | 7.086 | 5.057 | 6.779 | 4.814 | 6.410 | 4.523 |
| | 21 | 8.076 | 5.334 | 7.778 | 5.145 | 7.479 | 4.957 | 7.181 | 4.768 | 6.883 | 4.580 | 6.525 | 4.354 |
| | 22 | 8.144 | 4.883 | 7.855 | 4.749 | 7.565 | 4.614 | 7.276 | 4.480 | 6.986 | 4.345 | 6.639 | 4.184 |
| | 23 | 8.212 | 4.433 | 7.931 | 4.353 | 7.651 | 4.272 | 7.370 | 4.192 | 7.090 | 4.111 | 6.754 | 4.015 |
| | 24 | 8.279 | 3.983 | 8.008 | 3.956 | 7.737 | 3.930 | 7.465 | 3.903 | 7.194 | 3.877 | 6.868 | 3.845 |

## MODEL : MWM 030F / MLC 028C

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 7.657 | 5.145 | 7.196 | 4.692 | 6.735 | 4.238 | 6.275 | 3.785 | 5.814 | 3.331 | 5.261 | 2.787 |
| | 16 | 7.728 | 4.693 | 7.300 | 4.280 | 6.873 | 3.867 | 6.446 | 3.454 | 6.019 | 3.042 | 5.507 | 2.546 |
| 24 | 16 | 7.728 | 5.852 | 7.300 | 5.439 | 6.873 | 5.026 | 6.446 | 4.614 | 6.019 | 4.201 | 5.507 | 3.705 |
| | 17 | 7.798 | 5.400 | 7.405 | 5.028 | 7.011 | 4.656 | 6.618 | 4.283 | 6.224 | 3.911 | 5.752 | 3.464 |
| | 18 | 7.869 | 4.948 | 7.509 | 4.617 | 7.149 | 4.285 | 6.789 | 3.953 | 6.430 | 3.621 | 5.998 | 3.223 |
| | 19 | 7.940 | 4.496 | 7.613 | 4.205 | 7.287 | 3.914 | 6.961 | 3.623 | 6.635 | 3.332 | 6.243 | 2.982 |
| | 20 | 8.008 | 4.045 | 7.701 | 3.803 | 7.394 | 3.560 | 7.086 | 3.318 | 6.779 | 3.075 | 6.410 | 2.784 |
| 28 | 18 | 7.869 | 6.107 | 7.509 | 5.776 | 7.149 | 5.444 | 6.789 | 5.112 | 6.430 | 4.781 | 5.998 | 4.383 |
| | 19 | 7.940 | 5.655 | 7.613 | 5.364 | 7.287 | 5.073 | 6.961 | 4.782 | 6.635 | 4.491 | 6.243 | 4.142 |
| | 20 | 8.008 | 5.205 | 7.701 | 4.962 | 7.394 | 4.720 | 7.086 | 4.477 | 6.779 | 4.235 | 6.410 | 3.944 |
| | 21 | 8.076 | 4.754 | 7.778 | 4.566 | 7.479 | 4.377 | 7.181 | 4.189 | 6.883 | 4.000 | 6.525 | 3.774 |
| | 22 | 8.144 | 4.304 | 7.855 | 4.169 | 7.565 | 4.035 | 7.276 | 3.900 | 6.986 | 3.766 | 6.639 | 3.604 |
| | 23 | 8.212 | 3.854 | 7.931 | 3.773 | 7.651 | 3.693 | 7.370 | 3.612 | 7.090 | 3.532 | 6.754 | 3.435 |
| | 24 | 8.279 | 3.403 | 8.008 | 3.377 | 7.737 | 3.350 | 7.465 | 3.324 | 7.194 | 3.297 | 6.868 | 3.265 |
| 30 | 20 | 8.008 | 5.784 | 7.701 | 5.542 | 7.394 | 5.299 | 7.086 | 5.057 | 6.779 | 4.814 | 6.410 | 4.523 |
| | 21 | 8.076 | 5.334 | 7.778 | 5.145 | 7.479 | 4.957 | 7.181 | 4.768 | 6.883 | 4.580 | 6.525 | 4.354 |
| | 22 | 8.144 | 4.883 | 7.855 | 4.749 | 7.565 | 4.614 | 7.276 | 4.480 | 6.986 | 4.345 | 6.639 | 4.184 |
| | 23 | 8.212 | 4.433 | 7.931 | 4.353 | 7.651 | 4.272 | 7.370 | 4.192 | 7.090 | 4.111 | 6.754 | 4.015 |
| | 24 | 8.279 | 3.983 | 8.008 | 3.956 | 7.737 | 3.930 | 7.465 | 3.903 | 7.194 | 3.877 | 6.868 | 3.845 |

## R22 Models
## (Heatpump)

## MODEL : MWM 009GR / MLC 009CR

### *COOLING MODE*

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 3.163 | 2.063 | 2.934 | 1.852 | 2.705 | 1.641 | 2.476 | 1.430 | 2.247 | 1.219 | 1.972 | 0.966 |
| | 16 | 3.205 | 1.896 | 2.978 | 1.704 | 2.752 | 1.513 | 2.525 | 1.322 | 2.299 | 1.130 | 2.027 | 0.901 |
| 24 | 16 | 3.205 | 2.420 | 2.978 | 2.228 | 2.752 | 2.037 | 2.525 | 1.846 | 2.299 | 1.654 | 2.027 | 1.425 |
| | 17 | 3.246 | 2.252 | 3.022 | 2.081 | 2.798 | 1.909 | 2.574 | 1.737 | 2.351 | 1.565 | 2.082 | 1.359 |
| | 18 | 3.287 | 2.085 | 3.066 | 1.933 | 2.845 | 1.781 | 2.624 | 1.629 | 2.402 | 1.476 | 2.137 | 1.294 |
| | 19 | 3.329 | 1.918 | 3.110 | 1.785 | 2.891 | 1.653 | 2.673 | 1.520 | 2.454 | 1.388 | 2.192 | 1.228 |
| | 20 | 3.370 | 1.750 | 3.158 | 1.637 | 2.947 | 1.524 | 2.735 | 1.410 | 2.523 | 1.297 | 2.268 | 1.161 |
| 28 | 18 | 3.287 | 2.609 | 3.066 | 2.457 | 2.845 | 2.305 | 2.624 | 2.153 | 2.402 | 2.001 | 2.137 | 1.818 |
| | 19 | 3.329 | 2.442 | 3.110 | 2.309 | 2.891 | 2.177 | 2.673 | 2.044 | 2.454 | 1.912 | 2.192 | 1.752 |
| | 20 | 3.370 | 2.274 | 3.158 | 2.161 | 2.947 | 2.048 | 2.735 | 1.934 | 2.523 | 1.821 | 2.268 | 1.685 |
| | 21 | 3.413 | 2.107 | 3.210 | 2.012 | 3.007 | 1.918 | 2.805 | 1.823 | 2.602 | 1.729 | 2.359 | 1.615 |
| | 22 | 3.455 | 1.939 | 3.261 | 1.864 | 3.068 | 1.788 | 2.875 | 1.713 | 2.681 | 1.637 | 2.449 | 1.546 |
| | 23 | 3.497 | 1.772 | 3.313 | 1.715 | 3.129 | 1.658 | 2.945 | 1.602 | 2.761 | 1.545 | 2.540 | 1.477 |
| | 24 | 3.539 | 1.605 | 3.364 | 1.567 | 3.190 | 1.529 | 3.015 | 1.491 | 2.840 | 1.453 | 2.631 | 1.408 |
| 30 | 20 | 3.370 | 2.536 | 3.158 | 2.423 | 2.947 | 2.310 | 2.735 | 2.196 | 2.523 | 2.083 | 2.268 | 1.947 |
| | 21 | 3.413 | 2.369 | 3.210 | 2.274 | 3.007 | 2.180 | 2.805 | 2.085 | 2.602 | 1.991 | 2.359 | 1.877 |
| | 22 | 3.455 | 2.201 | 3.261 | 2.126 | 3.068 | 2.050 | 2.875 | 1.975 | 2.681 | 1.899 | 2.449 | 1.808 |
| | 23 | 3.497 | 2.034 | 3.313 | 1.977 | 3.129 | 1.921 | 2.945 | 1.864 | 2.761 | 1.807 | 2.540 | 1.739 |
| | 24 | 3.539 | 1.867 | 3.364 | 1.829 | 3.190 | 1.791 | 3.015 | 1.753 | 2.840 | 1.715 | 2.631 | 1.670 |

### *HEATING MODE*

| ID DB°C | Outdoor WB°C | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -9 | | -6 | | -5 | | 6 | | 12 | | 15 | | 18 | |
| | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 15 | 1.181 | 1.181 | 1.471 | 1.471 | 1.568 | 1.568 | 2.630 | 2.630 | 3.210 | 3.210 | 3.500 | 3.500 | 3.790 | 3.790 |
| 17 | 1.154 | 1.154 | 1.442 | 1.442 | 1.538 | 1.538 | 2.591 | 2.591 | 3.123 | 3.123 | 3.402 | 3.402 | 3.682 | 3.682 |
| 19 | 1.126 | 1.126 | 1.413 | 1.413 | 1.508 | 1.508 | 2.552 | 2.552 | 3.035 | 3.035 | 3.305 | 3.305 | 3.574 | 3.574 |
| 21 | 1.098 | 1.098 | 1.383 | 1.383 | 1.479 | 1.479 | 2.512 | 2.512 | 2.948 | 2.948 | 3.207 | 3.207 | 3.466 | 3.466 |
| 23 | 1.094 | 1.094 | 1.360 | 1.360 | 1.449 | 1.449 | 2.416 | 2.416 | 2.860 | 2.860 | 3.110 | 3.110 | 3.359 | 3.359 |
| 25 | 1.090 | 1.090 | 1.337 | 1.337 | 1.419 | 1.419 | 2.320 | 2.320 | 2.773 | 2.773 | 3.012 | 3.012 | 3.251 | 3.251 |
| 27 | 1.086 | 1.086 | 1.314 | 1.314 | 1.389 | 1.389 | 2.224 | 2.224 | 2.686 | 2.686 | 2.914 | 2.914 | 3.143 | 3.143 |
| | FROST REGION | | | | | | | | | | | | | |

## R22 Models
## (Heatpump)

## MODEL : MWM 010GR / MLC 010CR

### *COOLING MODE*

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 3.169 | 1.968 | 2.966 | 1.780 | 2.762 | 1.592 | 2.558 | 1.403 | 2.355 | 1.215 | 2.111 | 0.989 |
| | 16 | 3.206 | 1.800 | 3.012 | 1.635 | 2.817 | 1.470 | 2.623 | 1.306 | 2.429 | 1.141 | 2.195 | 0.943 |
| 24 | 16 | 3.206 | 2.386 | 3.012 | 2.222 | 2.817 | 2.057 | 2.623 | 1.892 | 2.429 | 1.728 | 2.195 | 1.530 |
| | 17 | 3.243 | 2.218 | 3.058 | 2.077 | 2.872 | 1.936 | 2.687 | 1.794 | 2.502 | 1.653 | 2.280 | 1.484 |
| | 18 | 3.280 | 2.049 | 3.104 | 1.932 | 2.928 | 1.814 | 2.752 | 1.697 | 2.576 | 1.579 | 2.364 | 1.438 |
| | 19 | 3.317 | 1.881 | 3.150 | 1.787 | 2.983 | 1.693 | 2.816 | 1.599 | 2.649 | 1.505 | 2.449 | 1.392 |
| | 20 | 3.353 | 1.711 | 3.193 | 1.635 | 3.033 | 1.559 | 2.873 | 1.483 | 2.713 | 1.407 | 2.521 | 1.315 |
| 28 | 18 | 3.280 | 2.636 | 3.104 | 2.518 | 2.928 | 2.401 | 2.752 | 2.283 | 2.576 | 2.166 | 2.364 | 2.025 |
| | 19 | 3.317 | 2.467 | 3.150 | 2.373 | 2.983 | 2.279 | 2.816 | 2.186 | 2.649 | 2.092 | 2.449 | 1.979 |
| | 20 | 3.353 | 2.298 | 3.193 | 2.222 | 3.033 | 2.146 | 2.873 | 2.070 | 2.713 | 1.993 | 2.521 | 1.902 |
| | 21 | 3.389 | 2.128 | 3.235 | 2.066 | 3.080 | 2.004 | 2.925 | 1.942 | 2.771 | 1.879 | 2.585 | 1.805 |
| | 22 | 3.426 | 1.959 | 3.276 | 1.910 | 3.127 | 1.862 | 2.978 | 1.814 | 2.828 | 1.765 | 2.649 | 1.707 |
| | 23 | 3.462 | 1.789 | 3.318 | 1.754 | 3.174 | 1.720 | 3.030 | 1.686 | 2.886 | 1.651 | 2.713 | 1.610 |
| | 24 | 3.499 | 1.619 | 3.360 | 1.599 | 3.221 | 1.578 | 3.082 | 1.558 | 2.943 | 1.537 | 2.776 | 1.513 |
| 30 | 20 | 3.353 | 2.591 | 3.193 | 2.515 | 3.033 | 2.439 | 2.873 | 2.363 | 2.713 | 2.287 | 2.521 | 2.195 |
| | 21 | 3.389 | 2.422 | 3.235 | 2.359 | 3.080 | 2.297 | 2.925 | 2.235 | 2.771 | 2.173 | 2.585 | 2.098 |
| | 22 | 3.426 | 2.252 | 3.276 | 2.204 | 3.127 | 2.155 | 2.978 | 2.107 | 2.828 | 2.059 | 2.649 | 2.001 |
| | 23 | 3.462 | 2.082 | 3.318 | 2.048 | 3.174 | 2.013 | 3.030 | 1.979 | 2.886 | 1.945 | 2.713 | 1.903 |
| | 24 | 3.499 | 1.912 | 3.360 | 1.892 | 3.221 | 1.872 | 3.082 | 1.851 | 2.943 | 1.831 | 2.776 | 1.806 |

### *HEATING MODE*

| ID DB°C | Outdoor WB°C | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -9 | | -6 | | -5 | | 6 | | 12 | | 15 | | 18 | |
| | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 15 | 1.274 | 1.274 | 1.577 | 1.577 | 1.678 | 1.678 | 2.789 | 2.789 | 3.395 | 3.395 | 3.698 | 3.698 | 4.001 | 4.001 |
| 17 | 1.246 | 1.246 | 1.546 | 1.546 | 1.646 | 1.646 | 2.743 | 2.743 | 3.302 | 3.302 | 3.595 | 3.595 | 3.887 | 3.887 |
| 19 | 1.219 | 1.219 | 1.516 | 1.516 | 1.615 | 1.615 | 2.697 | 2.697 | 3.210 | 3.210 | 3.492 | 3.492 | 3.773 | 3.773 |
| 21 | 1.191 | 1.191 | 1.485 | 1.485 | 1.583 | 1.583 | 2.652 | 2.652 | 3.118 | 3.118 | 3.388 | 3.388 | 3.659 | 3.659 |
| 23 | 1.184 | 1.184 | 1.460 | 1.460 | 1.551 | 1.551 | 2.554 | 2.554 | 3.025 | 3.025 | 3.285 | 3.285 | 3.546 | 3.546 |
| 25 | 1.178 | 1.178 | 1.434 | 1.434 | 1.520 | 1.520 | 2.457 | 2.457 | 2.933 | 2.933 | 3.182 | 3.182 | 3.432 | 3.432 |
| 27 | 1.172 | 1.172 | 1.409 | 1.409 | 1.488 | 1.488 | 2.359 | 2.359 | 2.841 | 2.841 | 3.079 | 3.079 | 3.318 | 3.318 |
| | FROST REGION | | | | | | | | | | | | | |

## R22 Models
## (Heatpump)

## MODEL : MWM 015GR / MLC 015CR

### *COOLING MODE*

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 3.852 | 2.383 | 3.608 | 2.179 | 3.365 | 1.974 | 3.121 | 1.769 | 2.877 | 1.564 | 2.584 | 1.318 |
| | 16 | 4.062 | 2.259 | 3.784 | 2.056 | 3.506 | 1.852 | 3.228 | 1.648 | 2.950 | 1.445 | 2.616 | 1.201 |
| 24 | 16 | 4.062 | 2.917 | 3.784 | 2.713 | 3.506 | 2.510 | 3.228 | 2.306 | 2.950 | 2.103 | 2.616 | 1.858 |
| | 17 | 4.271 | 2.793 | 3.959 | 2.590 | 3.647 | 2.388 | 3.335 | 2.186 | 3.022 | 1.983 | 2.647 | 1.741 |
| | 18 | 4.481 | 2.668 | 4.134 | 2.467 | 3.788 | 2.266 | 3.441 | 2.065 | 3.095 | 1.864 | 2.679 | 1.623 |
| | 19 | 4.691 | 2.544 | 4.310 | 2.344 | 3.929 | 2.145 | 3.548 | 1.945 | 3.168 | 1.745 | 2.711 | 1.505 |
| | 20 | 4.902 | 2.421 | 4.503 | 2.227 | 4.103 | 2.034 | 3.704 | 1.841 | 3.305 | 1.648 | 2.826 | 1.416 |
| 28 | 18 | 4.481 | 3.326 | 4.134 | 3.125 | 3.788 | 2.924 | 3.441 | 2.723 | 3.095 | 2.522 | 2.679 | 2.281 |
| | 19 | 4.691 | 3.202 | 4.310 | 3.002 | 3.929 | 2.803 | 3.548 | 2.603 | 3.168 | 2.403 | 2.711 | 2.163 |
| | 20 | 4.902 | 3.078 | 4.503 | 2.885 | 4.103 | 2.692 | 3.704 | 2.499 | 3.305 | 2.306 | 2.826 | 2.074 |
| | 21 | 5.115 | 2.955 | 4.707 | 2.773 | 4.300 | 2.590 | 3.893 | 2.407 | 3.485 | 2.224 | 2.996 | 2.005 |
| | 22 | 5.328 | 2.832 | 4.912 | 2.660 | 4.497 | 2.487 | 4.081 | 2.315 | 3.666 | 2.142 | 3.167 | 1.935 |
| | 23 | 5.540 | 2.709 | 5.117 | 2.547 | 4.693 | 2.385 | 4.270 | 2.222 | 3.846 | 2.060 | 3.338 | 1.866 |
| | 24 | 5.753 | 2.586 | 5.321 | 2.434 | 4.890 | 2.282 | 4.458 | 2.130 | 4.026 | 1.978 | 3.508 | 1.796 |
| 30 | 20 | 4.902 | 3.407 | 4.503 | 3.214 | 4.103 | 3.021 | 3.704 | 2.828 | 3.305 | 2.635 | 2.826 | 2.403 |
| | 21 | 5.115 | 3.284 | 4.707 | 3.101 | 4.300 | 2.919 | 3.893 | 2.736 | 3.485 | 2.553 | 2.996 | 2.334 |
| | 22 | 5.328 | 3.161 | 4.912 | 2.989 | 4.497 | 2.816 | 4.081 | 2.644 | 3.666 | 2.471 | 3.167 | 2.264 |
| | 23 | 5.540 | 3.038 | 5.117 | 2.876 | 4.693 | 2.714 | 4.270 | 2.551 | 3.846 | 2.389 | 3.338 | 2.195 |
| | 24 | 5.753 | 2.915 | 5.321 | 2.763 | 4.890 | 2.611 | 4.458 | 2.459 | 4.026 | 2.307 | 3.508 | 2.125 |

### *HEATING MODE*

| ID DB°C | Outdoor WB°C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -9 | | -6 | | -5 | | 6 | | 12 | | 15 | | 18 | |
| | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 15 | 1.533 | 1.533 | 1.925 | 1.925 | 2.055 | 2.055 | 3.489 | 3.489 | 4.271 | 4.271 | 4.662 | 4.662 | 5.053 | 5.053 |
| 17 | 1.494 | 1.494 | 1.885 | 1.885 | 2.016 | 2.016 | 3.442 | 3.442 | 4.154 | 4.154 | 4.531 | 4.531 | 4.909 | 4.909 |
| 19 | 1.454 | 1.454 | 1.846 | 1.846 | 1.976 | 1.976 | 3.396 | 3.396 | 4.038 | 4.038 | 4.401 | 4.401 | 4.765 | 4.765 |
| 21 | 1.414 | 1.414 | 1.806 | 1.806 | 1.937 | 1.937 | 3.350 | 3.350 | 3.921 | 3.921 | 4.271 | 4.271 | 4.621 | 4.621 |
| 23 | 1.413 | 1.413 | 1.776 | 1.776 | 1.898 | 1.898 | 3.215 | 3.215 | 3.805 | 3.805 | 4.141 | 4.141 | 4.478 | 4.478 |
| 25 | 1.411 | 1.411 | 1.746 | 1.746 | 1.858 | 1.858 | 3.081 | 3.081 | 3.688 | 3.688 | 4.011 | 4.011 | 4.334 | 4.334 |
| 27 | 1.409 | 1.409 | 1.717 | 1.717 | 1.819 | 1.819 | 2.946 | 2.946 | 3.572 | 3.572 | 3.881 | 3.881 | 4.190 | 4.190 |
| | FROST REGION | | | | | | | | | | | | | |

## R22 Models
## (Heatpump)

## MODEL : MWM 020GR / MLC 018CR

### *COOLING MODE*

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 5.954 | 3.645 | 5.566 | 3.311 | 5.179 | 2.977 | 4.791 | 2.642 | 4.404 | 2.308 | 3.939 | 1.907 |
| | 16 | 6.132 | 3.309 | 5.730 | 3.009 | 5.329 | 2.709 | 4.927 | 2.409 | 4.525 | 2.109 | 4.043 | 1.749 |
| 24 | 16 | 6.132 | 4.352 | 5.730 | 4.052 | 5.329 | 3.752 | 4.927 | 3.451 | 4.525 | 3.151 | 4.043 | 2.791 |
| | 17 | 6.310 | 4.016 | 5.894 | 3.750 | 5.478 | 3.484 | 5.062 | 3.218 | 4.646 | 2.952 | 4.147 | 2.633 |
| | 18 | 6.488 | 3.680 | 6.058 | 3.448 | 5.628 | 3.216 | 5.198 | 2.985 | 4.767 | 2.753 | 4.251 | 2.475 |
| | 19 | 6.667 | 3.344 | 6.222 | 3.147 | 5.778 | 2.949 | 5.333 | 2.751 | 4.888 | 2.554 | 4.355 | 2.317 |
| | 20 | 6.846 | 3.008 | 6.397 | 2.846 | 5.947 | 2.684 | 5.498 | 2.521 | 5.049 | 2.359 | 4.510 | 2.164 |
| 28 | 18 | 6.488 | 4.723 | 6.058 | 4.491 | 5.628 | 4.259 | 5.198 | 4.027 | 4.767 | 3.795 | 4.251 | 3.517 |
| | 19 | 6.667 | 4.387 | 6.222 | 4.189 | 5.778 | 3.991 | 5.333 | 3.794 | 4.888 | 3.596 | 4.355 | 3.359 |
| | 20 | 6.846 | 4.051 | 6.397 | 3.889 | 5.947 | 3.726 | 5.498 | 3.564 | 5.049 | 3.401 | 4.510 | 3.206 |
| | 21 | 7.026 | 3.715 | 6.578 | 3.589 | 6.131 | 3.462 | 5.683 | 3.336 | 5.235 | 3.209 | 4.698 | 3.058 |
| | 22 | 7.206 | 3.380 | 6.760 | 3.289 | 6.314 | 3.199 | 5.868 | 3.108 | 5.422 | 3.017 | 4.886 | 2.909 |
| | 23 | 7.386 | 3.044 | 6.942 | 2.989 | 6.497 | 2.935 | 6.053 | 2.880 | 5.608 | 2.826 | 5.075 | 2.760 |
| | 24 | 7.567 | 2.708 | 7.124 | 2.689 | 6.681 | 2.671 | 6.238 | 2.652 | 5.795 | 2.634 | 5.263 | 2.611 |
| 30 | 20 | 6.846 | 4.572 | 6.397 | 4.410 | 5.947 | 4.247 | 5.498 | 4.085 | 5.049 | 3.923 | 4.510 | 3.728 |
| | 21 | 7.026 | 4.236 | 6.578 | 4.110 | 6.131 | 3.984 | 5.683 | 3.857 | 5.235 | 3.731 | 4.698 | 3.579 |
| | 22 | 7.206 | 3.901 | 6.760 | 3.810 | 6.314 | 3.720 | 5.868 | 3.629 | 5.422 | 3.539 | 4.886 | 3.430 |
| | 23 | 7.386 | 3.565 | 6.942 | 3.511 | 6.497 | 3.456 | 6.053 | 3.401 | 5.608 | 3.347 | 5.075 | 3.281 |
| | 24 | 7.567 | 3.229 | 7.124 | 3.211 | 6.681 | 3.192 | 6.238 | 3.174 | 5.795 | 3.155 | 5.263 | 3.133 |

### *HEATING MODE*

| ID DB°C | Outdoor WB°C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -9 | | -6 | | -5 | | 6 | | 12 | | 15 | | 18 | |
| | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 15 | 2.593 | 2.593 | 3.146 | 3.146 | 3.330 | 3.330 | 5.359 | 5.359 | 6.465 | 6.465 | 7.018 | 7.018 | 7.572 | 7.572 |
| 17 | 2.552 | 2.552 | 3.090 | 3.090 | 3.269 | 3.269 | 5.285 | 5.285 | 6.290 | 6.290 | 6.823 | 6.823 | 7.356 | 7.356 |
| 19 | 2.512 | 2.512 | 3.034 | 3.034 | 3.208 | 3.208 | 5.210 | 5.210 | 6.115 | 6.115 | 6.628 | 6.628 | 7.141 | 7.141 |
| 21 | 2.471 | 2.471 | 2.978 | 2.978 | 3.147 | 3.147 | 5.136 | 5.136 | 5.940 | 5.940 | 6.433 | 6.433 | 6.926 | 6.926 |
| 23 | 2.443 | 2.443 | 2.925 | 2.925 | 3.085 | 3.085 | 4.937 | 4.937 | 5.765 | 5.765 | 6.238 | 6.238 | 6.710 | 6.710 |
| 25 | 2.415 | 2.415 | 2.872 | 2.872 | 3.024 | 3.024 | 4.738 | 4.738 | 5.590 | 5.590 | 6.042 | 6.042 | 6.495 | 6.495 |
| 27 | 2.387 | 2.387 | 2.819 | 2.819 | 2.963 | 2.963 | 4.540 | 4.540 | 5.415 | 5.415 | 5.847 | 5.847 | 6.280 | 6.280 |
| | FROST REGION | | | | | | | | | | | | | |

## R22 Models
## (Heatpump)

## MODEL : MWM 020GR / MLC 020CR

### *COOLING MODE*

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 5.778 | 3.640 | 5.473 | 3.396 | 5.169 | 3.153 | 4.864 | 2.909 | 4.559 | 2.666 | 4.194 | 2.373 |
| | 16 | 6.026 | 3.334 | 5.701 | 3.125 | 5.376 | 2.917 | 5.051 | 2.709 | 4.726 | 2.501 | 4.336 | 2.251 |
| 24 | 16 | 6.026 | 4.248 | 5.701 | 4.040 | 5.376 | 3.832 | 5.051 | 3.624 | 4.726 | 3.416 | 4.336 | 3.166 |
| | 17 | 6.274 | 3.942 | 5.929 | 3.770 | 5.583 | 3.597 | 5.238 | 3.424 | 4.892 | 3.252 | 4.478 | 3.044 |
| | 18 | 6.523 | 3.636 | 6.157 | 3.499 | 5.791 | 3.362 | 5.425 | 3.224 | 5.059 | 3.087 | 4.620 | 2.922 |
| | 19 | 6.771 | 3.330 | 6.384 | 3.228 | 5.998 | 3.126 | 5.612 | 3.025 | 5.225 | 2.923 | 4.762 | 2.800 |
| | 20 | 7.019 | 3.023 | 6.614 | 2.947 | 6.210 | 2.870 | 5.805 | 2.794 | 5.400 | 2.718 | 4.915 | 2.626 |
| 28 | 18 | 6.523 | 4.551 | 6.157 | 4.414 | 5.791 | 4.276 | 5.425 | 4.139 | 5.059 | 4.002 | 4.620 | 3.837 |
| | 19 | 6.771 | 4.245 | 6.384 | 4.143 | 5.998 | 4.041 | 5.612 | 3.939 | 5.225 | 3.837 | 4.762 | 3.715 |
| | 20 | 7.019 | 3.938 | 6.614 | 3.861 | 6.210 | 3.785 | 5.805 | 3.709 | 5.400 | 3.633 | 4.915 | 3.541 |
| | 21 | 7.268 | 3.630 | 6.846 | 3.572 | 6.424 | 3.515 | 6.003 | 3.458 | 5.581 | 3.401 | 5.075 | 3.332 |
| | 22 | 7.516 | 3.321 | 7.077 | 3.283 | 6.639 | 3.245 | 6.200 | 3.207 | 5.761 | 3.169 | 5.235 | 3.123 |
| | 23 | 7.765 | 3.013 | 7.309 | 2.994 | 6.853 | 2.975 | 6.398 | 2.956 | 5.942 | 2.937 | 5.395 | 2.914 |
| | 24 | 8.013 | 2.705 | 7.541 | 2.705 | 7.068 | 2.705 | 6.595 | 2.705 | 6.123 | 2.705 | 5.556 | 2.705 |
| 30 | 20 | 7.019 | 4.395 | 6.614 | 4.319 | 6.210 | 4.242 | 5.805 | 4.166 | 5.400 | 4.090 | 4.915 | 3.998 |
| | 21 | 7.268 | 4.087 | 6.846 | 4.030 | 6.424 | 3.973 | 6.003 | 3.915 | 5.581 | 3.858 | 5.075 | 3.789 |
| | 22 | 7.516 | 3.779 | 7.077 | 3.741 | 6.639 | 3.703 | 6.200 | 3.664 | 5.761 | 3.626 | 5.235 | 3.581 |
| | 23 | 7.765 | 3.471 | 7.309 | 3.452 | 6.853 | 3.433 | 6.398 | 3.414 | 5.942 | 3.394 | 5.395 | 3.372 |
| | 24 | 8.013 | 3.163 | 7.541 | 3.163 | 7.068 | 3.163 | 6.595 | 3.163 | 6.123 | 3.163 | 5.556 | 3.163 |

### *HEATING MODE*

| ID DB°C | Outdoor WB°C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -9 | | -6 | | -5 | | 6 | | 12 | | 15 | | 18 | |
| | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 15 | 2.506 | 2.506 | 3.124 | 3.124 | 3.330 | 3.330 | 5.597 | 5.597 | 6.834 | 6.834 | 7.452 | 7.452 | 8.071 | 8.071 |
| 17 | 2.446 | 2.446 | 3.062 | 3.062 | 3.267 | 3.267 | 5.546 | 5.546 | 6.648 | 6.648 | 7.245 | 7.245 | 7.841 | 7.841 |
| 19 | 2.386 | 2.386 | 2.999 | 2.999 | 3.204 | 3.204 | 5.494 | 5.494 | 6.462 | 6.462 | 7.037 | 7.037 | 7.612 | 7.612 |
| 21 | 2.326 | 2.326 | 2.937 | 2.937 | 3.140 | 3.140 | 5.443 | 5.443 | 6.276 | 6.276 | 6.829 | 6.829 | 7.382 | 7.382 |
| 23 | 2.319 | 2.319 | 2.887 | 2.887 | 3.077 | 3.077 | 5.204 | 5.204 | 6.089 | 6.089 | 6.621 | 6.621 | 7.153 | 7.153 |
| 25 | 2.311 | 2.311 | 2.838 | 2.838 | 3.014 | 3.014 | 4.965 | 4.965 | 5.903 | 5.903 | 6.413 | 6.413 | 6.923 | 6.923 |
| 27 | 2.304 | 2.304 | 2.789 | 2.789 | 2.951 | 2.951 | 4.726 | 4.726 | 5.717 | 5.717 | 6.205 | 6.205 | 6.694 | 6.694 |
| | FROST REGION | | | | | | | | | | | | | |

## R22 Models
## (Heatpump)

## MODEL : MWM 025GR / MLC 025CR

### *COOLING MODE*

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 7.657 | 5.145 | 7.196 | 4.692 | 6.735 | 4.238 | 6.275 | 3.785 | 5.814 | 3.331 | 5.261 | 2.787 |
| | 16 | 7.728 | 4.693 | 7.300 | 4.280 | 6.873 | 3.867 | 6.446 | 3.454 | 6.019 | 3.042 | 5.507 | 2.546 |
| 24 | 16 | 7.728 | 5.852 | 7.300 | 5.439 | 6.873 | 5.026 | 6.446 | 4.614 | 6.019 | 4.201 | 5.507 | 3.705 |
| | 17 | 7.798 | 5.400 | 7.405 | 5.028 | 7.011 | 4.656 | 6.618 | 4.283 | 6.224 | 3.911 | 5.752 | 3.464 |
| | 18 | 7.869 | 4.948 | 7.509 | 4.617 | 7.149 | 4.285 | 6.789 | 3.953 | 6.430 | 3.621 | 5.998 | 3.223 |
| | 19 | 7.940 | 4.496 | 7.613 | 4.205 | 7.287 | 3.914 | 6.961 | 3.623 | 6.635 | 3.332 | 6.243 | 2.982 |
| | 20 | 8.008 | 4.045 | 7.701 | 3.803 | 7.394 | 3.560 | 7.086 | 3.318 | 6.779 | 3.075 | 6.410 | 2.784 |
| 28 | 18 | 7.869 | 6.107 | 7.509 | 5.776 | 7.149 | 5.444 | 6.789 | 5.112 | 6.430 | 4.781 | 5.998 | 4.383 |
| | 19 | 7.940 | 5.655 | 7.613 | 5.364 | 7.287 | 5.073 | 6.961 | 4.782 | 6.635 | 4.491 | 6.243 | 4.142 |
| | 20 | 8.008 | 5.205 | 7.701 | 4.962 | 7.394 | 4.720 | 7.086 | 4.477 | 6.779 | 4.235 | 6.410 | 3.944 |
| | 21 | 8.076 | 4.754 | 7.778 | 4.566 | 7.479 | 4.377 | 7.181 | 4.189 | 6.883 | 4.000 | 6.525 | 3.774 |
| | 22 | 8.144 | 4.304 | 7.855 | 4.169 | 7.565 | 4.035 | 7.276 | 3.900 | 6.986 | 3.766 | 6.639 | 3.604 |
| | 23 | 8.212 | 3.854 | 7.931 | 3.773 | 7.651 | 3.693 | 7.370 | 3.612 | 7.090 | 3.532 | 6.754 | 3.435 |
| | 24 | 8.279 | 3.403 | 8.008 | 3.377 | 7.737 | 3.350 | 7.465 | 3.324 | 7.194 | 3.297 | 6.868 | 3.265 |
| 30 | 20 | 8.008 | 5.784 | 7.701 | 5.542 | 7.394 | 5.299 | 7.086 | 5.057 | 6.779 | 4.814 | 6.410 | 4.523 |
| | 21 | 8.076 | 5.334 | 7.778 | 5.145 | 7.479 | 4.957 | 7.181 | 4.768 | 6.883 | 4.580 | 6.525 | 4.354 |
| | 22 | 8.144 | 4.883 | 7.855 | 4.749 | 7.565 | 4.614 | 7.276 | 4.480 | 6.986 | 4.345 | 6.639 | 4.184 |
| | 23 | 8.212 | 4.433 | 7.931 | 4.353 | 7.651 | 4.272 | 7.370 | 4.192 | 7.090 | 4.111 | 6.754 | 4.015 |
| | 24 | 8.279 | 3.983 | 8.008 | 3.956 | 7.737 | 3.930 | 7.465 | 3.903 | 7.194 | 3.877 | 6.868 | 3.845 |

### *HEATING MODE*

| ID DB°C | Outdoor WB°C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -9 | | -6 | | -5 | | 6 | | 12 | | 15 | | 18 | |
| | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 15 | 3.204 | 3.204 | 3.940 | 3.940 | 4.185 | 4.185 | 6.883 | 6.883 | 8.355 | 8.355 | 9.091 | 9.091 | 9.827 | 9.827 |
| 17 | 3.141 | 3.141 | 3.865 | 3.865 | 4.107 | 4.107 | 6.822 | 6.822 | 8.128 | 8.128 | 8.838 | 8.838 | 9.547 | 9.547 |
| 19 | 3.078 | 3.078 | 3.791 | 3.791 | 4.028 | 4.028 | 6.760 | 6.760 | 7.901 | 7.901 | 8.585 | 8.585 | 9.268 | 9.268 |
| 21 | 3.015 | 3.015 | 3.716 | 3.716 | 3.950 | 3.950 | 6.699 | 6.699 | 7.674 | 7.674 | 8.331 | 8.331 | 8.989 | 8.989 |
| 23 | 2.992 | 2.992 | 3.652 | 3.652 | 3.872 | 3.872 | 6.406 | 6.406 | 7.447 | 7.447 | 8.078 | 8.078 | 8.709 | 8.709 |
| 25 | 2.970 | 2.970 | 3.588 | 3.588 | 3.794 | 3.794 | 6.112 | 6.112 | 7.220 | 7.220 | 7.825 | 7.825 | 8.430 | 8.430 |
| 27 | 2.947 | 2.947 | 3.523 | 3.523 | 3.715 | 3.715 | 5.819 | 5.819 | 6.993 | 6.993 | 7.572 | 7.572 | 8.150 | 8.150 |
| | FROST REGION | | | | | | | | | | | | | |

## R22 Models
## (Heatpump)

## MODEL : MWM 030FR / MLC 028CR

### *COOLING MODE*

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 8.187 | 5.330 | 7.772 | 4.967 | 7.356 | 4.604 | 6.941 | 4.241 | 6.525 | 3.877 | 6.026 | 3.441 |
| | 16 | 8.441 | 4.894 | 8.027 | 4.579 | 7.614 | 4.265 | 7.200 | 3.951 | 6.786 | 3.637 | 6.289 | 3.260 |
| 24 | 16 | 8.441 | 6.144 | 8.027 | 5.830 | 7.614 | 5.516 | 7.200 | 5.202 | 6.786 | 4.888 | 6.289 | 4.511 |
| | 17 | 8.695 | 5.707 | 8.283 | 5.442 | 7.871 | 5.177 | 7.459 | 4.912 | 7.047 | 4.647 | 6.552 | 4.329 |
| | 18 | 8.949 | 5.271 | 8.539 | 5.055 | 8.128 | 4.839 | 7.718 | 4.623 | 7.307 | 4.407 | 6.815 | 4.147 |
| | 19 | 9.203 | 4.834 | 8.795 | 4.667 | 8.386 | 4.500 | 7.977 | 4.333 | 7.568 | 4.166 | 7.078 | 3.966 |
| | 20 | 9.456 | 4.395 | 9.037 | 4.266 | 8.617 | 4.136 | 8.198 | 4.007 | 7.779 | 3.877 | 7.276 | 3.722 |
| 28 | 18 | 8.949 | 6.521 | 8.539 | 6.305 | 8.128 | 6.089 | 7.718 | 5.873 | 7.307 | 5.657 | 6.815 | 5.398 |
| | 19 | 9.203 | 6.084 | 8.795 | 5.918 | 8.386 | 5.751 | 7.977 | 5.584 | 7.568 | 5.417 | 7.078 | 5.217 |
| | 20 | 9.456 | 5.646 | 9.037 | 5.517 | 8.617 | 5.387 | 8.198 | 5.257 | 7.779 | 5.128 | 7.276 | 4.972 |
| | 21 | 9.708 | 5.207 | 9.270 | 5.107 | 8.832 | 5.007 | 8.394 | 4.907 | 7.956 | 4.806 | 7.430 | 4.686 |
| | 22 | 9.959 | 4.768 | 9.503 | 4.697 | 9.046 | 4.626 | 8.590 | 4.556 | 8.133 | 4.485 | 7.585 | 4.400 |
| | 23 | 10.211 | 4.328 | 9.736 | 4.287 | 9.261 | 4.246 | 8.785 | 4.205 | 8.310 | 4.164 | 7.740 | 4.114 |
| | 24 | 10.462 | 3.889 | 9.969 | 3.877 | 9.475 | 3.866 | 8.981 | 3.854 | 8.487 | 3.842 | 7.895 | 3.828 |
| 30 | 20 | 9.456 | 6.272 | 9.037 | 6.142 | 8.617 | 6.012 | 8.198 | 5.883 | 7.779 | 5.753 | 7.276 | 5.598 |
| | 21 | 9.708 | 5.832 | 9.270 | 5.732 | 8.832 | 5.632 | 8.394 | 5.532 | 7.956 | 5.432 | 7.430 | 5.312 |
| | 22 | 9.959 | 5.393 | 9.503 | 5.322 | 9.046 | 5.252 | 8.590 | 5.181 | 8.133 | 5.110 | 7.585 | 5.026 |
| | 23 | 10.211 | 4.954 | 9.736 | 4.913 | 9.261 | 4.871 | 8.785 | 4.830 | 8.310 | 4.789 | 7.740 | 4.739 |
| | 24 | 10.462 | 4.515 | 9.969 | 4.503 | 9.475 | 4.491 | 8.981 | 4.479 | 8.487 | 4.468 | 7.895 | 4.453 |

### *HEATING MODE*

| ID DB°C | Outdoor WB°C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -9 | | -6 | | -5 | | 6 | | 12 | | 15 | | 18 | |
| | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 15 | 3.527 | 3.527 | 4.422 | 4.422 | 4.720 | 4.720 | 8.000 | 8.000 | 9.790 | 9.790 | 10.684 | 10.684 | 11.579 | 11.579 |
| 17 | 3.437 | 3.437 | 4.332 | 4.332 | 4.630 | 4.630 | 7.939 | 7.939 | 9.523 | 9.523 | 10.386 | 10.386 | 11.250 | 11.250 |
| 19 | 3.347 | 3.347 | 4.241 | 4.241 | 4.540 | 4.540 | 7.877 | 7.877 | 9.256 | 9.256 | 10.088 | 10.088 | 10.920 | 10.920 |
| 21 | 3.256 | 3.256 | 4.151 | 4.151 | 4.449 | 4.449 | 7.816 | 7.816 | 8.989 | 8.989 | 9.790 | 9.790 | 10.591 | 10.591 |
| 23 | 3.252 | 3.252 | 4.082 | 4.082 | 4.359 | 4.359 | 7.461 | 7.461 | 8.722 | 8.722 | 9.492 | 9.492 | 10.262 | 10.262 |
| 25 | 3.247 | 3.247 | 4.014 | 4.014 | 4.269 | 4.269 | 7.105 | 7.105 | 8.455 | 8.455 | 9.194 | 9.194 | 9.932 | 9.932 |
| 27 | 3.242 | 3.242 | 3.945 | 3.945 | 4.179 | 4.179 | 6.750 | 6.750 | 8.188 | 8.188 | 8.896 | 8.896 | 9.603 | 9.603 |
| | FROST REGION | | | | | | | | | | | | | |

## R410A Models
## (Cooling only)

## MODEL : M5WM 007G / M5LC 007C

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 2.541 | 1.631 | 2.345 | 1.434 | 2.152 | 1.241 | 1.959 | 1.048 | 1.766 | 0.854 | 1.535 | 0.623 |
| | 16 | 2.588 | 1.515 | 2.402 | 1.335 | 2.217 | 1.157 | 2.033 | 0.979 | 1.849 | 0.801 | 1.627 | 0.588 |
| 24 | 16 | 2.588 | 2.038 | 2.402 | 1.858 | 2.217 | 1.680 | 2.033 | 1.502 | 1.849 | 1.325 | 1.627 | 1.111 |
| | 17 | 2.635 | 1.922 | 2.459 | 1.759 | 2.283 | 1.597 | 2.107 | 1.434 | 1.931 | 1.271 | 1.720 | 1.076 |
| | 18 | 2.680 | 1.804 | 2.513 | 1.657 | 2.346 | 1.511 | 2.179 | 1.364 | 2.012 | 1.217 | 1.812 | 1.041 |
| | 19 | 2.722 | 1.686 | 2.547 | 1.558 | 2.372 | 1.430 | 2.197 | 1.302 | 2.064 | 1.168 | 1.904 | 1.006 |
| | 20 | 2.768 | 1.563 | 2.610 | 1.424 | 2.451 | 1.284 | 2.293 | 1.145 | 2.135 | 1.006 | 1.944 | 0.839 |
| 28 | 18 | 2.680 | 2.327 | 2.513 | 2.181 | 2.346 | 2.034 | 2.179 | 1.887 | 2.012 | 1.740 | 1.812 | 1.564 |
| | 19 | 2.722 | 2.210 | 2.547 | 2.082 | 2.372 | 1.954 | 2.197 | 1.826 | 2.064 | 1.691 | 1.904 | 1.529 |
| | 20 | 2.768 | 2.086 | 2.610 | 1.947 | 2.451 | 1.808 | 2.293 | 1.668 | 2.135 | 1.529 | 1.944 | 1.362 |
| | 21 | 2.812 | 1.963 | 2.652 | 1.816 | 2.493 | 1.668 | 2.334 | 1.520 | 2.175 | 1.372 | 1.984 | 1.195 |
| | 22 | 2.855 | 1.840 | 2.695 | 1.684 | 2.535 | 1.528 | 2.376 | 1.371 | 2.216 | 1.215 | 2.024 | 1.028 |
| | 23 | 2.898 | 1.717 | 2.738 | 1.553 | 2.577 | 1.388 | 2.417 | 1.223 | 2.257 | 1.058 | 2.064 | 0.860 |
| | 24 | 2.941 | 1.594 | 2.780 | 1.421 | 2.619 | 1.248 | 2.458 | 1.074 | 2.297 | 0.901 | 2.104 | 0.693 |
| 30 | 20 | 2.768 | 2.348 | 2.610 | 2.209 | 2.451 | 2.069 | 2.293 | 1.930 | 2.135 | 1.791 | 1.944 | 1.624 |
| | 21 | 2.812 | 2.225 | 2.652 | 2.077 | 2.493 | 1.929 | 2.334 | 1.782 | 2.175 | 1.634 | 1.984 | 1.456 |
| | 22 | 2.855 | 2.102 | 2.695 | 1.946 | 2.535 | 1.789 | 2.376 | 1.633 | 2.216 | 1.477 | 2.024 | 1.289 |
| | 23 | 2.898 | 1.979 | 2.738 | 1.814 | 2.577 | 1.649 | 2.417 | 1.485 | 2.257 | 1.320 | 2.064 | 1.122 |
| | 24 | 2.941 | 1.856 | 2.780 | 1.683 | 2.619 | 1.509 | 2.458 | 1.336 | 2.297 | 1.163 | 2.104 | 0.955 |

## MODEL : M5WM 009G / M5LC 010C

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 2.720 | 1.771 | 2.556 | 1.606 | 2.406 | 1.457 | 2.257 | 1.307 | 2.108 | 1.158 | 1.929 | 0.978 |
| | 16 | 2.816 | 1.656 | 2.654 | 1.511 | 2.499 | 1.374 | 2.344 | 1.236 | 2.189 | 1.099 | 2.003 | 0.934 |
| 24 | 16 | 2.816 | 2.202 | 2.654 | 2.057 | 2.499 | 1.920 | 2.344 | 1.782 | 2.189 | 1.645 | 2.003 | 1.480 |
| | 17 | 2.912 | 2.087 | 2.752 | 1.962 | 2.591 | 1.837 | 2.431 | 1.711 | 2.270 | 1.586 | 2.078 | 1.436 |
| | 18 | 3.001 | 1.964 | 2.837 | 1.854 | 2.674 | 1.744 | 2.511 | 1.634 | 2.348 | 1.524 | 2.152 | 1.392 |
| | 19 | 3.092 | 1.835 | 2.940 | 1.706 | 2.789 | 1.577 | 2.637 | 1.449 | 2.451 | 1.403 | 2.227 | 1.348 |
| | 20 | 3.177 | 1.713 | 3.003 | 1.603 | 2.829 | 1.492 | 2.656 | 1.381 | 2.482 | 1.271 | 2.274 | 1.138 |
| 28 | 18 | 3.001 | 2.510 | 2.837 | 2.400 | 2.674 | 2.290 | 2.511 | 2.180 | 2.348 | 2.070 | 2.152 | 1.938 |
| | 19 | 3.092 | 2.381 | 2.940 | 2.252 | 2.789 | 2.123 | 2.637 | 1.995 | 2.451 | 1.949 | 2.227 | 1.894 |
| | 20 | 3.177 | 2.259 | 3.003 | 2.148 | 2.829 | 2.038 | 2.656 | 1.927 | 2.482 | 1.817 | 2.274 | 1.684 |
| | 21 | 3.264 | 2.130 | 3.083 | 2.004 | 2.901 | 1.878 | 2.720 | 1.751 | 2.538 | 1.625 | 2.320 | 1.474 |
| | 22 | 3.352 | 2.002 | 3.162 | 1.860 | 2.973 | 1.718 | 2.784 | 1.576 | 2.594 | 1.434 | 2.367 | 1.263 |
| | 23 | 3.439 | 1.873 | 3.242 | 1.715 | 3.045 | 1.558 | 2.848 | 1.400 | 2.650 | 1.242 | 2.414 | 1.053 |
| | 24 | 3.527 | 1.744 | 3.322 | 1.571 | 3.117 | 1.398 | 2.912 | 1.224 | 2.707 | 1.051 | 2.461 | 0.843 |
| 30 | 20 | 3.177 | 2.532 | 3.003 | 2.421 | 2.829 | 2.311 | 2.656 | 2.200 | 2.482 | 2.089 | 2.274 | 1.957 |
| | 21 | 3.264 | 2.403 | 3.083 | 2.277 | 2.901 | 2.151 | 2.720 | 2.024 | 2.538 | 1.898 | 2.320 | 1.747 |
| | 22 | 3.352 | 2.275 | 3.162 | 2.133 | 2.973 | 1.991 | 2.784 | 1.849 | 2.594 | 1.707 | 2.367 | 1.536 |
| | 23 | 3.439 | 2.146 | 3.242 | 1.988 | 3.045 | 1.831 | 2.848 | 1.673 | 2.650 | 1.515 | 2.414 | 1.326 |
| | 24 | 3.527 | 2.017 | 3.322 | 1.844 | 3.117 | 1.671 | 2.912 | 1.497 | 2.707 | 1.324 | 2.461 | 1.116 |

## R410A Models
## (Cooling only)

## MODEL : M5WM 010G / M5LC 010C

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 3.028 | 1.998 | 2.824 | 1.793 | 2.631 | 1.600 | 2.439 | 1.407 | 2.247 | 1.215 | 2.016 | 0.983 |
| | 16 | 3.110 | 1.857 | 2.909 | 1.675 | 2.714 | 1.500 | 2.519 | 1.324 | 2.325 | 1.148 | 2.091 | 0.937 |
| 24 | 16 | 3.110 | 2.450 | 2.909 | 2.268 | 2.714 | 2.093 | 2.519 | 1.917 | 2.325 | 1.741 | 2.091 | 1.530 |
| | 17 | 3.192 | 2.309 | 2.995 | 2.151 | 2.797 | 1.992 | 2.600 | 1.833 | 2.402 | 1.675 | 2.165 | 1.484 |
| | 18 | 3.268 | 2.163 | 3.070 | 2.024 | 2.873 | 1.884 | 2.675 | 1.745 | 2.477 | 1.606 | 2.240 | 1.439 |
| | 19 | 3.347 | 2.008 | 3.159 | 1.844 | 2.971 | 1.680 | 2.783 | 1.517 | 2.570 | 1.460 | 2.314 | 1.393 |
| | 20 | 3.420 | 1.864 | 3.217 | 1.731 | 3.013 | 1.598 | 2.810 | 1.465 | 2.607 | 1.332 | 2.363 | 1.173 |
| 28 | 18 | 3.268 | 2.756 | 3.070 | 2.617 | 2.873 | 2.477 | 2.675 | 2.338 | 2.477 | 2.199 | 2.240 | 2.032 |
| | 19 | 3.347 | 2.601 | 3.159 | 2.437 | 2.971 | 2.273 | 2.783 | 2.110 | 2.570 | 2.053 | 2.314 | 1.986 |
| | 20 | 3.420 | 2.457 | 3.217 | 2.324 | 3.013 | 2.191 | 2.810 | 2.058 | 2.607 | 1.925 | 2.363 | 1.766 |
| | 21 | 3.495 | 2.304 | 3.287 | 2.158 | 3.078 | 2.012 | 2.870 | 1.867 | 2.662 | 1.721 | 2.412 | 1.546 |
| | 22 | 3.570 | 2.151 | 3.357 | 1.992 | 3.143 | 1.834 | 2.930 | 1.675 | 2.716 | 1.517 | 2.460 | 1.326 |
| | 23 | 3.646 | 1.998 | 3.427 | 1.827 | 3.208 | 1.655 | 2.990 | 1.484 | 2.771 | 1.312 | 2.509 | 1.107 |
| | 24 | 3.721 | 1.845 | 3.497 | 1.661 | 3.273 | 1.477 | 3.050 | 1.292 | 2.826 | 1.108 | 2.557 | 0.887 |
| 30 | 20 | 3.420 | 2.753 | 3.217 | 2.620 | 3.013 | 2.488 | 2.810 | 2.355 | 2.607 | 2.222 | 2.363 | 2.063 |
| | 21 | 3.495 | 2.600 | 3.287 | 2.455 | 3.078 | 2.309 | 2.870 | 2.163 | 2.662 | 2.018 | 2.412 | 1.843 |
| | 22 | 3.570 | 2.448 | 3.357 | 2.289 | 3.143 | 2.130 | 2.930 | 1.972 | 2.716 | 1.813 | 2.460 | 1.623 |
| | 23 | 3.646 | 2.295 | 3.427 | 2.123 | 3.208 | 1.952 | 2.990 | 1.780 | 2.771 | 1.609 | 2.509 | 1.403 |
| | 24 | 3.721 | 2.142 | 3.497 | 1.958 | 3.273 | 1.773 | 3.050 | 1.589 | 2.826 | 1.405 | 2.557 | 1.183 |

## MODEL : M5WM 015G / M5LC 015C

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 3.525 | 2.306 | 3.328 | 2.109 | 3.156 | 1.936 | 2.983 | 1.764 | 2.811 | 1.591 | 2.604 | 1.384 |
| | 16 | 3.668 | 2.159 | 3.482 | 1.989 | 3.308 | 1.831 | 3.134 | 1.673 | 2.960 | 1.515 | 2.751 | 1.325 |
| 24 | 16 | 3.668 | 2.856 | 3.482 | 2.686 | 3.308 | 2.528 | 3.134 | 2.370 | 2.960 | 2.212 | 2.751 | 2.022 |
| | 17 | 3.810 | 2.709 | 3.635 | 2.566 | 3.460 | 2.422 | 3.285 | 2.279 | 3.109 | 2.135 | 2.899 | 1.963 |
| | 18 | 3.941 | 2.551 | 3.769 | 2.427 | 3.597 | 2.302 | 3.425 | 2.178 | 3.253 | 2.053 | 3.047 | 1.904 |
| | 19 | 4.069 | 2.381 | 3.885 | 2.215 | 3.701 | 2.049 | 3.517 | 1.883 | 3.370 | 1.866 | 3.195 | 1.845 |
| | 20 | 4.200 | 2.226 | 4.020 | 2.099 | 3.839 | 1.971 | 3.659 | 1.843 | 3.478 | 1.715 | 3.262 | 1.561 |
| 28 | 18 | 3.941 | 3.248 | 3.769 | 3.123 | 3.597 | 2.999 | 3.425 | 2.874 | 3.253 | 2.750 | 3.047 | 2.601 |
| | 19 | 4.069 | 3.078 | 3.885 | 2.912 | 3.701 | 2.746 | 3.517 | 2.580 | 3.370 | 2.563 | 3.195 | 2.541 |
| | 20 | 4.200 | 2.923 | 4.020 | 2.795 | 3.839 | 2.668 | 3.659 | 2.540 | 3.478 | 2.412 | 3.262 | 2.258 |
| | 21 | 4.329 | 2.757 | 4.136 | 2.606 | 3.944 | 2.456 | 3.752 | 2.306 | 3.559 | 2.156 | 3.329 | 1.975 |
| | 22 | 4.457 | 2.590 | 4.253 | 2.418 | 4.049 | 2.245 | 3.845 | 2.072 | 3.641 | 1.899 | 3.396 | 1.692 |
| | 23 | 4.585 | 2.424 | 4.369 | 2.229 | 4.153 | 2.034 | 3.938 | 1.838 | 3.722 | 1.643 | 3.463 | 1.409 |
| | 24 | 4.713 | 2.257 | 4.486 | 2.040 | 4.258 | 1.822 | 4.031 | 1.605 | 3.803 | 1.387 | 3.530 | 1.126 |
| 30 | 20 | 4.200 | 3.272 | 4.020 | 3.144 | 3.839 | 3.016 | 3.659 | 2.888 | 3.478 | 2.760 | 3.262 | 2.607 |
| | 21 | 4.329 | 3.105 | 4.136 | 2.955 | 3.944 | 2.805 | 3.752 | 2.654 | 3.559 | 2.504 | 3.329 | 2.324 |
| | 22 | 4.457 | 2.939 | 4.253 | 2.766 | 4.049 | 2.593 | 3.845 | 2.421 | 3.641 | 2.248 | 3.396 | 2.041 |
| | 23 | 4.585 | 2.772 | 4.369 | 2.577 | 4.153 | 2.382 | 3.938 | 2.187 | 3.722 | 1.992 | 3.463 | 1.757 |
| | 24 | 4.713 | 2.606 | 4.486 | 2.388 | 4.258 | 2.171 | 4.031 | 1.953 | 3.803 | 1.735 | 3.530 | 1.474 |

## R410A Models
## (Cooling only)

## MODEL : M5WM 020G / M5LC 020C

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 5.147 | 3.507 | 4.918 | 3.236 | 4.654 | 3.002 | 4.390 | 2.769 | 4.126 | 2.535 | 3.809 | 2.255 |
| | 16 | 5.349 | 3.308 | 5.102 | 3.073 | 4.838 | 2.858 | 4.574 | 2.642 | 4.310 | 2.427 | 3.992 | 2.168 |
| 24 | 16 | 5.349 | 4.197 | 5.102 | 3.963 | 4.838 | 3.747 | 4.574 | 3.532 | 4.310 | 3.316 | 3.992 | 3.057 |
| | 17 | 5.551 | 3.997 | 5.287 | 3.800 | 5.022 | 3.602 | 4.758 | 3.405 | 4.493 | 3.208 | 4.176 | 2.971 |
| | 18 | 5.769 | 3.780 | 5.498 | 3.608 | 5.227 | 3.435 | 4.956 | 3.263 | 4.685 | 3.091 | 4.360 | 2.884 |
| | 19 | 5.994 | 3.549 | 5.755 | 3.330 | 5.515 | 3.112 | 5.276 | 2.894 | 4.943 | 2.850 | 4.543 | 2.798 |
| | 20 | 6.201 | 3.333 | 5.901 | 3.151 | 5.600 | 2.968 | 5.300 | 2.785 | 4.999 | 2.603 | 4.639 | 2.383 |
| 28 | 18 | 5.769 | 4.669 | 5.498 | 4.497 | 5.227 | 4.325 | 4.956 | 4.152 | 4.685 | 3.980 | 4.360 | 3.774 |
| | 19 | 5.994 | 4.438 | 5.755 | 4.220 | 5.515 | 4.001 | 5.276 | 3.783 | 4.943 | 3.739 | 4.543 | 3.687 |
| | 20 | 6.201 | 4.223 | 5.901 | 4.040 | 5.600 | 3.857 | 5.300 | 3.675 | 4.999 | 3.492 | 4.639 | 3.273 |
| | 21 | 6.416 | 3.993 | 6.093 | 3.775 | 5.769 | 3.557 | 5.446 | 3.338 | 5.122 | 3.120 | 4.734 | 2.858 |
| | 22 | 6.631 | 3.764 | 6.284 | 3.510 | 5.938 | 3.256 | 5.592 | 3.002 | 5.245 | 2.748 | 4.829 | 2.444 |
| | 23 | 6.845 | 3.534 | 6.476 | 3.245 | 6.107 | 2.956 | 5.737 | 2.666 | 5.368 | 2.377 | 4.925 | 2.029 |
| | 24 | 7.060 | 3.305 | 6.668 | 2.980 | 6.276 | 2.655 | 5.883 | 2.330 | 5.491 | 2.005 | 5.020 | 1.615 |
| 30 | 20 | 6.201 | 4.667 | 5.901 | 4.485 | 5.600 | 4.302 | 5.300 | 4.119 | 4.999 | 3.936 | 4.639 | 3.717 |
| | 21 | 6.416 | 4.438 | 6.093 | 4.220 | 5.769 | 4.001 | 5.446 | 3.783 | 5.122 | 3.565 | 4.734 | 3.303 |
| | 22 | 6.631 | 4.209 | 6.284 | 3.955 | 5.938 | 3.701 | 5.592 | 3.447 | 5.245 | 3.193 | 4.829 | 2.888 |
| | 23 | 6.845 | 3.979 | 6.476 | 3.690 | 6.107 | 3.400 | 5.737 | 3.111 | 5.368 | 2.821 | 4.925 | 2.474 |
| | 24 | 7.060 | 3.750 | 6.668 | 3.425 | 6.276 | 3.100 | 5.883 | 2.775 | 5.491 | 2.450 | 5.020 | 2.060 |

## MODEL : M5WM 025G / M5LC 025C

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 6.276 | 4.244 | 5.917 | 3.885 | 5.599 | 3.567 | 5.282 | 3.250 | 4.964 | 2.932 | 4.583 | 2.551 |
| | 16 | 6.510 | 3.997 | 6.156 | 3.682 | 5.822 | 3.388 | 5.489 | 3.094 | 5.156 | 2.800 | 4.756 | 2.447 |
| 24 | 16 | 6.510 | 5.158 | 6.156 | 4.843 | 5.822 | 4.549 | 5.489 | 4.255 | 5.156 | 3.961 | 4.756 | 3.608 |
| | 17 | 6.743 | 4.911 | 6.394 | 4.640 | 6.045 | 4.370 | 5.696 | 4.099 | 5.347 | 3.828 | 4.928 | 3.504 |
| | 18 | 6.958 | 4.644 | 6.601 | 4.405 | 6.244 | 4.166 | 5.887 | 3.926 | 5.530 | 3.687 | 5.101 | 3.399 |
| | 19 | 7.177 | 4.367 | 6.835 | 4.102 | 6.494 | 3.837 | 6.153 | 3.572 | 5.753 | 3.446 | 5.274 | 3.295 |
| | 20 | 7.384 | 4.097 | 7.000 | 3.847 | 6.615 | 3.597 | 6.231 | 3.347 | 5.846 | 3.097 | 5.385 | 2.797 |
| 28 | 18 | 6.958 | 5.805 | 6.601 | 5.566 | 6.244 | 5.327 | 5.887 | 5.087 | 5.530 | 4.848 | 5.101 | 4.561 |
| | 19 | 7.177 | 5.528 | 6.835 | 5.263 | 6.494 | 4.998 | 6.153 | 4.733 | 5.753 | 4.607 | 5.274 | 4.456 |
| | 20 | 7.384 | 5.258 | 7.000 | 5.008 | 6.615 | 4.758 | 6.231 | 4.508 | 5.846 | 4.258 | 5.385 | 3.958 |
| | 21 | 7.596 | 4.977 | 7.192 | 4.685 | 6.788 | 4.393 | 6.384 | 4.102 | 5.980 | 3.810 | 5.495 | 3.460 |
| | 22 | 7.808 | 4.696 | 7.385 | 4.362 | 6.961 | 4.029 | 6.538 | 3.695 | 6.114 | 3.362 | 5.606 | 2.962 |
| | 23 | 8.020 | 4.415 | 7.577 | 4.040 | 7.134 | 3.664 | 6.691 | 3.289 | 6.248 | 2.914 | 5.717 | 2.463 |
| | 24 | 8.232 | 4.134 | 7.770 | 3.717 | 7.307 | 3.300 | 6.845 | 2.883 | 6.383 | 2.466 | 5.828 | 1.965 |
| 30 | 20 | 7.384 | 5.839 | 7.000 | 5.589 | 6.615 | 5.339 | 6.231 | 5.089 | 5.846 | 4.839 | 5.385 | 4.539 |
| | 21 | 7.596 | 5.558 | 7.192 | 5.266 | 6.788 | 4.974 | 6.384 | 4.682 | 5.980 | 4.391 | 5.495 | 4.040 |
| | 22 | 7.808 | 5.277 | 7.385 | 4.943 | 6.961 | 4.609 | 6.538 | 4.276 | 6.114 | 3.942 | 5.606 | 3.542 |
| | 23 | 8.020 | 4.996 | 7.577 | 4.620 | 7.134 | 4.245 | 6.691 | 3.870 | 6.248 | 3.494 | 5.717 | 3.044 |
| | 24 | 8.232 | 4.715 | 7.770 | 4.297 | 7.307 | 3.880 | 6.845 | 3.463 | 6.383 | 3.046 | 5.828 | 2.546 |

## R410A Models
## (Cooling only)

## MODEL : M5WM 031F / M5LC 028C

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 7.648 | 4.989 | 7.255 | 4.595 | 6.798 | 4.252 | 6.341 | 3.908 | 5.884 | 3.565 | 5.336 | 3.153 |
| | 16 | 7.911 | 4.701 | 7.503 | 4.359 | 7.062 | 4.043 | 6.621 | 3.727 | 6.180 | 3.411 | 5.650 | 3.032 |
| 24 | 16 | 7.911 | 5.947 | 7.503 | 5.606 | 7.062 | 5.290 | 6.621 | 4.974 | 6.180 | 4.658 | 5.650 | 4.278 |
| | 17 | 8.175 | 5.659 | 7.750 | 5.370 | 7.325 | 5.081 | 6.900 | 4.793 | 6.475 | 4.504 | 5.965 | 4.157 |
| | 18 | 8.469 | 5.347 | 8.048 | 5.095 | 7.627 | 4.843 | 7.206 | 4.591 | 6.785 | 4.338 | 6.280 | 4.036 |
| | 19 | 8.770 | 5.014 | 8.387 | 4.696 | 8.004 | 4.378 | 7.621 | 4.060 | 7.155 | 3.994 | 6.595 | 3.915 |
| | 20 | 9.050 | 4.705 | 8.605 | 4.442 | 8.159 | 4.178 | 7.714 | 3.915 | 7.268 | 3.651 | 6.734 | 3.335 |
| 28 | 18 | 8.469 | 6.593 | 8.048 | 6.341 | 7.627 | 6.089 | 7.206 | 5.837 | 6.785 | 5.585 | 6.280 | 5.282 |
| | 19 | 8.770 | 6.261 | 8.387 | 5.942 | 8.004 | 5.624 | 7.621 | 5.306 | 7.155 | 5.240 | 6.595 | 5.161 |
| | 20 | 9.050 | 5.952 | 8.605 | 5.688 | 8.159 | 5.425 | 7.714 | 5.161 | 7.268 | 4.898 | 6.734 | 4.581 |
| | 21 | 9.337 | 5.623 | 8.863 | 5.311 | 8.389 | 4.999 | 7.915 | 4.687 | 7.441 | 4.375 | 6.872 | 4.001 |
| | 22 | 9.625 | 5.294 | 9.122 | 4.934 | 8.619 | 4.574 | 8.116 | 4.213 | 7.614 | 3.853 | 7.011 | 3.421 |
| | 23 | 9.912 | 4.965 | 9.381 | 4.556 | 8.849 | 4.148 | 8.318 | 3.740 | 7.787 | 3.331 | 7.149 | 2.841 |
| | 24 | 10.199 | 4.635 | 9.639 | 4.179 | 9.079 | 3.722 | 8.519 | 3.266 | 7.959 | 2.809 | 7.288 | 2.261 |
| 30 | 20 | 9.050 | 6.575 | 8.605 | 6.312 | 8.159 | 6.048 | 7.714 | 5.784 | 7.268 | 5.521 | 6.734 | 5.204 |
| | 21 | 9.337 | 6.246 | 8.863 | 5.934 | 8.389 | 5.622 | 7.915 | 5.311 | 7.441 | 4.999 | 6.872 | 4.624 |
| | 22 | 9.625 | 5.917 | 9.122 | 5.557 | 8.619 | 5.197 | 8.116 | 4.837 | 7.614 | 4.477 | 7.011 | 4.044 |
| | 23 | 9.912 | 5.588 | 9.381 | 5.179 | 8.849 | 4.771 | 8.318 | 4.363 | 7.787 | 3.954 | 7.149 | 3.464 |
| | 24 | 10.199 | 5.259 | 9.639 | 4.802 | 9.079 | 4.346 | 8.519 | 3.889 | 7.959 | 3.432 | 7.288 | 2.884 |

## R410A Models
## (Heatpump)

## MODEL : M5WM 007GR / M5LC 007CR

### *COOLING MODE*

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 2.247 | 1.520 | 2.115 | 1.388 | 1.997 | 1.269 | 1.878 | 1.151 | 1.760 | 1.032 | 1.618 | 0.890 |
| | 16 | 2.329 | 1.431 | 2.195 | 1.314 | 2.067 | 1.204 | 1.940 | 1.094 | 1.813 | 0.985 | 1.660 | 0.853 |
| 24 | 16 | 2.329 | 1.849 | 2.195 | 1.732 | 2.067 | 1.622 | 1.940 | 1.513 | 1.813 | 1.403 | 1.660 | 1.271 |
| | 17 | 2.410 | 1.759 | 2.274 | 1.658 | 2.138 | 1.557 | 2.002 | 1.456 | 1.866 | 1.356 | 1.703 | 1.234 |
| | 18 | 2.486 | 1.663 | 2.343 | 1.574 | 2.201 | 1.484 | 2.058 | 1.395 | 1.916 | 1.305 | 1.745 | 1.197 |
| | 19 | 2.566 | 1.564 | 2.443 | 1.468 | 2.320 | 1.372 | 2.197 | 1.277 | 2.011 | 1.224 | 1.787 | 1.161 |
| | 20 | 2.636 | 1.466 | 2.480 | 1.374 | 2.324 | 1.281 | 2.168 | 1.188 | 2.012 | 1.096 | 1.825 | 0.984 |
| 28 | 18 | 2.486 | 2.082 | 2.343 | 1.992 | 2.201 | 1.903 | 2.058 | 1.813 | 1.916 | 1.723 | 1.745 | 1.616 |
| | 19 | 2.566 | 1.982 | 2.443 | 1.886 | 2.320 | 1.791 | 2.197 | 1.695 | 2.011 | 1.642 | 1.787 | 1.579 |
| | 20 | 2.636 | 1.885 | 2.480 | 1.792 | 2.324 | 1.699 | 2.168 | 1.607 | 2.012 | 1.514 | 1.825 | 1.403 |
| | 21 | 2.711 | 1.784 | 2.548 | 1.676 | 2.385 | 1.569 | 2.221 | 1.462 | 2.058 | 1.355 | 1.862 | 1.226 |
| | 22 | 2.786 | 1.682 | 2.616 | 1.561 | 2.445 | 1.439 | 2.275 | 1.318 | 2.104 | 1.196 | 1.900 | 1.050 |
| | 23 | 2.861 | 1.581 | 2.683 | 1.445 | 2.506 | 1.309 | 2.328 | 1.173 | 2.151 | 1.037 | 1.937 | 0.874 |
| | 24 | 2.936 | 1.480 | 2.751 | 1.330 | 2.566 | 1.179 | 2.382 | 1.029 | 2.197 | 0.878 | 1.975 | 0.697 |
| 30 | 20 | 2.636 | 2.094 | 2.480 | 2.001 | 2.324 | 1.908 | 2.168 | 1.816 | 2.012 | 1.723 | 1.825 | 1.612 |
| | 21 | 2.711 | 1.993 | 2.548 | 1.886 | 2.385 | 1.778 | 2.221 | 1.671 | 2.058 | 1.564 | 1.862 | 1.435 |
| | 22 | 2.786 | 1.892 | 2.616 | 1.770 | 2.445 | 1.648 | 2.275 | 1.527 | 2.104 | 1.405 | 1.900 | 1.259 |
| | 23 | 2.861 | 1.790 | 2.683 | 1.654 | 2.506 | 1.518 | 2.328 | 1.382 | 2.151 | 1.246 | 1.937 | 1.083 |
| | 24 | 2.936 | 1.689 | 2.751 | 1.539 | 2.566 | 1.388 | 2.382 | 1.238 | 2.197 | 1.087 | 1.975 | 0.906 |

### *HEATING MODE*

| ID DB°C | Outdoor WB°C | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -9 | | -6 | | -5 | | 6 | | 12 | | 15 | | 18 | |
| | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 15 | 1.329 | 1.329 | 1.504 | 1.504 | 1.562 | 1.562 | 2.205 | 2.205 | 2.555 | 2.555 | 2.730 | 2.730 | 2.905 | 2.905 |
| 17 | 1.294 | 1.294 | 1.418 | 1.418 | 1.522 | 1.522 | 2.202 | 2.202 | 2.494 | 2.494 | 2.665 | 2.665 | 2.836 | 2.836 |
| 19 | 1.259 | 1.259 | 1.332 | 1.332 | 1.483 | 1.483 | 2.199 | 2.199 | 2.432 | 2.432 | 2.600 | 2.600 | 2.767 | 2.767 |
| 21 | 1.224 | 1.224 | 1.287 | 1.287 | 1.443 | 1.443 | 2.153 | 2.153 | 2.371 | 2.371 | 2.535 | 2.535 | 2.698 | 2.698 |
| 23 | 1.189 | 1.189 | 1.282 | 1.282 | 1.403 | 1.403 | 2.063 | 2.063 | 2.309 | 2.309 | 2.469 | 2.469 | 2.629 | 2.629 |
| 25 | 1.155 | 1.155 | 1.277 | 1.277 | 1.363 | 1.363 | 1.972 | 1.972 | 2.248 | 2.248 | 2.404 | 2.404 | 2.560 | 2.560 |
| 27 | 1.120 | 1.120 | 1.272 | 1.272 | 1.323 | 1.323 | 1.882 | 1.882 | 2.186 | 2.186 | 2.339 | 2.339 | 2.491 | 2.491 |
| | FROST REGION | | | | | | | | | | | | | |

## R410A Models
## (Heatpump)

## MODEL : M5WM 009GR / M5LC 010CR

### *COOLING MODE*

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 2.779 | 1.868 | 2.617 | 1.706 | 2.474 | 1.562 | 2.330 | 1.419 | 2.187 | 1.275 | 2.014 | 1.102 |
| | 16 | 2.868 | 1.747 | 2.707 | 1.607 | 2.555 | 1.476 | 2.403 | 1.345 | 2.250 | 1.214 | 2.067 | 1.056 |
| 24 | 16 | 2.868 | 2.271 | 2.707 | 2.131 | 2.555 | 2.000 | 2.403 | 1.869 | 2.250 | 1.738 | 2.067 | 1.580 |
| | 17 | 2.958 | 2.151 | 2.797 | 2.032 | 2.636 | 1.914 | 2.475 | 1.795 | 2.314 | 1.676 | 2.121 | 1.534 |
| | 18 | 3.039 | 2.022 | 2.873 | 1.919 | 2.706 | 1.817 | 2.540 | 1.714 | 2.373 | 1.611 | 2.174 | 1.488 |
| | 19 | 3.123 | 1.882 | 2.961 | 1.743 | 2.799 | 1.604 | 2.637 | 1.465 | 2.451 | 1.455 | 2.227 | 1.442 |
| | 20 | 3.202 | 1.757 | 3.023 | 1.655 | 2.845 | 1.552 | 2.666 | 1.449 | 2.488 | 1.346 | 2.274 | 1.223 |
| 28 | 18 | 3.039 | 2.546 | 2.873 | 2.443 | 2.706 | 2.341 | 2.540 | 2.238 | 2.373 | 2.135 | 2.174 | 2.012 |
| | 19 | 3.123 | 2.406 | 2.961 | 2.267 | 2.799 | 2.128 | 2.637 | 1.989 | 2.451 | 1.979 | 2.227 | 1.966 |
| | 20 | 3.202 | 2.281 | 3.023 | 2.179 | 2.845 | 2.076 | 2.666 | 1.973 | 2.488 | 1.870 | 2.274 | 1.747 |
| | 21 | 3.283 | 2.146 | 3.098 | 2.027 | 2.913 | 1.908 | 2.728 | 1.789 | 2.542 | 1.670 | 2.320 | 1.527 |
| | 22 | 3.364 | 2.011 | 3.173 | 1.876 | 2.981 | 1.740 | 2.789 | 1.605 | 2.597 | 1.470 | 2.367 | 1.308 |
| | 23 | 3.446 | 1.875 | 3.247 | 1.724 | 3.049 | 1.573 | 2.850 | 1.421 | 2.652 | 1.270 | 2.414 | 1.088 |
| | 24 | 3.527 | 1.740 | 3.322 | 1.572 | 3.117 | 1.405 | 2.912 | 1.237 | 2.707 | 1.070 | 2.461 | 0.869 |
| 30 | 20 | 3.202 | 2.543 | 3.023 | 2.441 | 2.845 | 2.338 | 2.666 | 2.235 | 2.488 | 2.132 | 2.274 | 2.009 |
| | 21 | 3.283 | 2.408 | 3.098 | 2.289 | 2.913 | 2.170 | 2.728 | 2.051 | 2.542 | 1.932 | 2.320 | 1.789 |
| | 22 | 3.364 | 2.273 | 3.173 | 2.138 | 2.981 | 2.002 | 2.789 | 1.867 | 2.597 | 1.732 | 2.367 | 1.570 |
| | 23 | 3.446 | 2.137 | 3.247 | 1.986 | 3.049 | 1.835 | 2.850 | 1.683 | 2.652 | 1.532 | 2.414 | 1.350 |
| | 24 | 3.527 | 2.002 | 3.322 | 1.834 | 3.117 | 1.667 | 2.912 | 1.499 | 2.707 | 1.332 | 2.461 | 1.131 |

### *HEATING MODE*

| ID DB°C | Outdoor WB°C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -9 | | -6 | | -5 | | 6 | | 12 | | 15 | | 18 | |
| | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 15 | 1.595 | 1.595 | 1.805 | 1.805 | 1.875 | 1.875 | 2.646 | 2.646 | 3.066 | 3.066 | 3.276 | 3.276 | 3.486 | 3.486 |
| 17 | 1.553 | 1.553 | 1.786 | 1.786 | 1.831 | 1.831 | 2.642 | 2.642 | 3.015 | 3.015 | 3.224 | 3.224 | 3.433 | 3.433 |
| 19 | 1.511 | 1.511 | 1.768 | 1.768 | 1.788 | 1.788 | 2.639 | 2.639 | 2.964 | 2.964 | 3.172 | 3.172 | 3.379 | 3.379 |
| 21 | 1.469 | 1.469 | 1.728 | 1.728 | 1.744 | 1.744 | 2.597 | 2.597 | 2.913 | 2.913 | 3.120 | 3.120 | 3.326 | 3.326 |
| 23 | 1.427 | 1.427 | 1.667 | 1.667 | 1.701 | 1.701 | 2.517 | 2.517 | 2.862 | 2.862 | 3.067 | 3.067 | 3.272 | 3.272 |
| 25 | 1.386 | 1.386 | 1.607 | 1.607 | 1.657 | 1.657 | 2.436 | 2.436 | 2.811 | 2.811 | 3.015 | 3.015 | 3.219 | 3.219 |
| 27 | 1.344 | 1.344 | 1.546 | 1.546 | 1.614 | 1.614 | 2.356 | 2.356 | 2.761 | 2.761 | 2.963 | 2.963 | 3.165 | 3.165 |
| | FROST REGION | | | | | | | | | | | | | |

## R410A Models
## (Heatpump)

## MODEL : M5WM 010GR / M5LC 010CR

### *COOLING MODE*

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 3.107 | 2.083 | 2.884 | 1.859 | 2.669 | 1.644 | 2.455 | 1.429 | 2.241 | 1.214 | 1.983 | 0.956 |
| | 16 | 3.179 | 1.934 | 2.958 | 1.734 | 2.742 | 1.538 | 2.527 | 1.342 | 2.311 | 1.146 | 2.052 | 0.911 |
| 24 | 16 | 3.179 | 2.524 | 2.958 | 2.324 | 2.742 | 2.128 | 2.527 | 1.932 | 2.311 | 1.736 | 2.052 | 1.501 |
| | 17 | 3.250 | 2.376 | 3.033 | 2.199 | 2.815 | 2.022 | 2.598 | 1.845 | 2.381 | 1.668 | 2.120 | 1.456 |
| | 18 | 3.318 | 2.224 | 3.100 | 2.067 | 2.883 | 1.911 | 2.666 | 1.754 | 2.449 | 1.598 | 2.188 | 1.411 |
| | 19 | 3.388 | 2.064 | 3.187 | 1.891 | 2.985 | 1.718 | 2.783 | 1.546 | 2.543 | 1.464 | 2.256 | 1.365 |
| | 20 | 3.452 | 1.912 | 3.231 | 1.765 | 3.010 | 1.619 | 2.789 | 1.472 | 2.568 | 1.325 | 2.303 | 1.149 |
| 28 | 18 | 3.318 | 2.813 | 3.100 | 2.657 | 2.883 | 2.501 | 2.666 | 2.344 | 2.449 | 2.188 | 2.188 | 2.000 |
| | 19 | 3.388 | 2.653 | 3.187 | 2.481 | 2.985 | 2.308 | 2.783 | 2.135 | 2.543 | 2.053 | 2.256 | 1.955 |
| | 20 | 3.452 | 2.502 | 3.231 | 2.355 | 3.010 | 2.208 | 2.789 | 2.062 | 2.568 | 1.915 | 2.303 | 1.739 |
| | 21 | 3.519 | 2.343 | 3.294 | 2.185 | 3.069 | 2.028 | 2.845 | 1.870 | 2.620 | 1.712 | 2.351 | 1.523 |
| | 22 | 3.585 | 2.184 | 3.357 | 2.016 | 3.129 | 1.847 | 2.900 | 1.678 | 2.672 | 1.509 | 2.398 | 1.307 |
| | 23 | 3.652 | 2.025 | 3.420 | 1.846 | 3.188 | 1.666 | 2.956 | 1.486 | 2.724 | 1.306 | 2.445 | 1.090 |
| | 24 | 3.718 | 1.867 | 3.483 | 1.676 | 3.247 | 1.485 | 3.011 | 1.294 | 2.776 | 1.103 | 2.493 | 0.874 |
| 30 | 20 | 3.452 | 2.797 | 3.231 | 2.650 | 3.010 | 2.503 | 2.789 | 2.357 | 2.568 | 2.210 | 2.303 | 2.034 |
| | 21 | 3.519 | 2.638 | 3.294 | 2.480 | 3.069 | 2.322 | 2.845 | 2.165 | 2.620 | 2.007 | 2.351 | 1.818 |
| | 22 | 3.585 | 2.479 | 3.357 | 2.310 | 3.129 | 2.142 | 2.900 | 1.973 | 2.672 | 1.804 | 2.398 | 1.601 |
| | 23 | 3.652 | 2.320 | 3.420 | 2.141 | 3.188 | 1.961 | 2.956 | 1.781 | 2.724 | 1.601 | 2.445 | 1.385 |
| | 24 | 3.718 | 2.162 | 3.483 | 1.971 | 3.247 | 1.780 | 3.011 | 1.589 | 2.776 | 1.398 | 2.493 | 1.169 |

### *HEATING MODE*

| ID DB°C | Outdoor WB°C | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -9 | | -6 | | -5 | | 6 | | 12 | | 15 | | 18 | |
| | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 15 | 1.683 | 1.683 | 1.905 | 1.905 | 1.979 | 1.979 | 2.793 | 2.793 | 3.236 | 3.236 | 3.458 | 3.458 | 3.680 | 3.680 |
| 17 | 1.639 | 1.639 | 1.870 | 1.870 | 1.932 | 1.932 | 2.789 | 2.789 | 3.175 | 3.175 | 3.394 | 3.394 | 3.614 | 3.614 |
| 19 | 1.595 | 1.595 | 1.835 | 1.835 | 1.884 | 1.884 | 2.786 | 2.786 | 3.114 | 3.114 | 3.331 | 3.331 | 3.548 | 3.548 |
| 21 | 1.551 | 1.551 | 1.790 | 1.790 | 1.837 | 1.837 | 2.737 | 2.737 | 3.052 | 3.052 | 3.267 | 3.267 | 3.481 | 3.481 |
| 23 | 1.507 | 1.507 | 1.735 | 1.735 | 1.789 | 1.789 | 2.643 | 2.643 | 2.991 | 2.991 | 3.203 | 3.203 | 3.415 | 3.415 |
| 25 | 1.463 | 1.463 | 1.680 | 1.680 | 1.742 | 1.742 | 2.548 | 2.548 | 2.930 | 2.930 | 3.139 | 3.139 | 3.349 | 3.349 |
| 27 | 1.418 | 1.418 | 1.626 | 1.626 | 1.695 | 1.695 | 2.454 | 2.454 | 2.868 | 2.868 | 3.075 | 3.075 | 3.283 | 3.283 |
| | FROST REGION | | | | | | | | | | | | | |

## R410A Models
## (Heatpump)

## MODEL : M5WM 015GR / M5LC 015CR

### *COOLING MODE*

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 3.618 | 2.383 | 3.422 | 2.162 | 3.193 | 1.960 | 2.965 | 1.757 | 2.736 | 1.555 | 2.461 | 1.312 |
| | 16 | 3.728 | 2.236 | 3.525 | 2.040 | 3.305 | 1.853 | 3.085 | 1.667 | 2.865 | 1.480 | 2.601 | 1.256 |
| 24 | 16 | 3.728 | 2.892 | 3.525 | 2.697 | 3.305 | 2.510 | 3.085 | 2.323 | 2.865 | 2.137 | 2.601 | 1.913 |
| | 17 | 3.839 | 2.745 | 3.627 | 2.575 | 3.416 | 2.404 | 3.205 | 2.233 | 2.994 | 2.062 | 2.740 | 1.857 |
| | 18 | 3.965 | 2.590 | 3.756 | 2.438 | 3.547 | 2.287 | 3.339 | 2.135 | 3.130 | 1.983 | 2.879 | 1.801 |
| | 19 | 4.093 | 2.429 | 3.901 | 2.268 | 3.709 | 2.107 | 3.517 | 1.947 | 3.291 | 1.855 | 3.019 | 1.745 |
| | 20 | 4.214 | 2.271 | 3.996 | 2.118 | 3.778 | 1.966 | 3.561 | 1.813 | 3.343 | 1.661 | 3.082 | 1.478 |
| 28 | 18 | 3.965 | 3.247 | 3.756 | 3.095 | 3.547 | 2.943 | 3.339 | 2.792 | 3.130 | 2.640 | 2.879 | 2.458 |
| | 19 | 4.093 | 3.085 | 3.901 | 2.925 | 3.709 | 2.764 | 3.517 | 2.603 | 3.291 | 2.512 | 3.019 | 2.402 |
| | 20 | 4.214 | 2.928 | 3.996 | 2.775 | 3.778 | 2.622 | 3.561 | 2.470 | 3.343 | 2.317 | 3.082 | 2.134 |
| | 21 | 4.337 | 2.764 | 4.108 | 2.592 | 3.878 | 2.419 | 3.649 | 2.246 | 3.420 | 2.074 | 3.146 | 1.867 |
| | 22 | 4.460 | 2.601 | 4.219 | 2.408 | 3.979 | 2.215 | 3.738 | 2.023 | 3.498 | 1.830 | 3.209 | 1.599 |
| | 23 | 4.583 | 2.437 | 4.331 | 2.225 | 4.079 | 2.012 | 3.827 | 1.799 | 3.575 | 1.587 | 3.272 | 1.331 |
| | 24 | 4.706 | 2.274 | 4.442 | 2.041 | 4.179 | 1.809 | 3.915 | 1.576 | 3.652 | 1.343 | 3.336 | 1.064 |
| 30 | 20 | 4.214 | 3.256 | 3.996 | 3.103 | 3.778 | 2.951 | 3.561 | 2.798 | 3.343 | 2.646 | 3.082 | 2.463 |
| | 21 | 4.337 | 3.092 | 4.108 | 2.920 | 3.878 | 2.747 | 3.649 | 2.575 | 3.420 | 2.402 | 3.146 | 2.195 |
| | 22 | 4.460 | 2.929 | 4.219 | 2.736 | 3.979 | 2.544 | 3.738 | 2.351 | 3.498 | 2.159 | 3.209 | 1.927 |
| | 23 | 4.583 | 2.766 | 4.331 | 2.553 | 4.079 | 2.340 | 3.827 | 2.128 | 3.575 | 1.915 | 3.272 | 1.660 |
| | 24 | 4.706 | 2.602 | 4.442 | 2.370 | 4.179 | 2.137 | 3.915 | 1.904 | 3.652 | 1.671 | 3.336 | 1.392 |

### *HEATING MODE*

| ID DB°C | Outdoor WB°C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -9 | | -6 | | -5 | | 6 | | 12 | | 15 | | 18 | |
| | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 15 | 2.126 | 2.126 | 2.406 | 2.406 | 2.500 | 2.500 | 3.528 | 3.528 | 4.088 | 4.088 | 4.368 | 4.368 | 4.649 | 4.649 |
| 17 | 2.070 | 2.070 | 2.288 | 2.288 | 2.440 | 2.440 | 3.523 | 3.523 | 4.013 | 4.013 | 4.290 | 4.290 | 4.568 | 4.568 |
| 19 | 2.015 | 2.015 | 2.169 | 2.169 | 2.381 | 2.381 | 3.519 | 3.519 | 3.937 | 3.937 | 4.212 | 4.212 | 4.486 | 4.486 |
| 21 | 1.959 | 1.959 | 2.102 | 2.102 | 2.321 | 2.321 | 3.459 | 3.459 | 3.862 | 3.862 | 4.133 | 4.133 | 4.405 | 4.405 |
| 23 | 1.903 | 1.903 | 2.087 | 2.087 | 2.262 | 2.262 | 3.342 | 3.342 | 3.786 | 3.786 | 4.055 | 4.055 | 4.324 | 4.324 |
| 25 | 1.847 | 1.847 | 2.071 | 2.071 | 2.202 | 2.202 | 3.225 | 3.225 | 3.711 | 3.711 | 3.977 | 3.977 | 4.243 | 4.243 |
| 27 | 1.792 | 1.792 | 2.055 | 2.055 | 2.143 | 2.143 | 3.108 | 3.108 | 3.635 | 3.635 | 3.898 | 3.898 | 4.162 | 4.162 |
| | FROST REGION | | | | | | | | | | | | | |

## R410A Models
## (Heatpump)

## MODEL : M5WM 020GR / M5LC 020CR

### *COOLING MODE*

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 5.147 | 3.507 | 4.918 | 3.236 | 4.654 | 3.002 | 4.390 | 2.769 | 4.126 | 2.535 | 3.809 | 2.255 |
| | 16 | 5.349 | 3.308 | 5.102 | 3.073 | 4.838 | 2.858 | 4.574 | 2.642 | 4.310 | 2.427 | 3.992 | 2.168 |
| 24 | 16 | 5.349 | 4.197 | 5.102 | 3.963 | 4.838 | 3.747 | 4.574 | 3.532 | 4.310 | 3.316 | 3.992 | 3.057 |
| | 17 | 5.551 | 3.997 | 5.287 | 3.800 | 5.022 | 3.602 | 4.758 | 3.405 | 4.493 | 3.208 | 4.176 | 2.971 |
| | 18 | 5.769 | 3.780 | 5.498 | 3.608 | 5.227 | 3.435 | 4.956 | 3.263 | 4.685 | 3.091 | 4.360 | 2.884 |
| | 19 | 5.994 | 3.549 | 5.755 | 3.330 | 5.515 | 3.112 | 5.276 | 2.894 | 4.943 | 2.850 | 4.543 | 2.798 |
| | 20 | 6.201 | 3.333 | 5.901 | 3.151 | 5.600 | 2.968 | 5.300 | 2.785 | 4.999 | 2.603 | 4.639 | 2.383 |
| 28 | 18 | 5.769 | 4.669 | 5.498 | 4.497 | 5.227 | 4.325 | 4.956 | 4.152 | 4.685 | 3.980 | 4.360 | 3.774 |
| | 19 | 5.994 | 4.438 | 5.755 | 4.220 | 5.515 | 4.001 | 5.276 | 3.783 | 4.943 | 3.739 | 4.543 | 3.687 |
| | 20 | 6.201 | 4.223 | 5.901 | 4.040 | 5.600 | 3.857 | 5.300 | 3.675 | 4.999 | 3.492 | 4.639 | 3.273 |
| | 21 | 6.416 | 3.993 | 6.093 | 3.775 | 5.769 | 3.557 | 5.446 | 3.338 | 5.122 | 3.120 | 4.734 | 2.858 |
| | 22 | 6.631 | 3.764 | 6.284 | 3.510 | 5.938 | 3.256 | 5.592 | 3.002 | 5.245 | 2.748 | 4.829 | 2.444 |
| | 23 | 6.845 | 3.534 | 6.476 | 3.245 | 6.107 | 2.956 | 5.737 | 2.666 | 5.368 | 2.377 | 4.925 | 2.029 |
| | 24 | 7.060 | 3.305 | 6.668 | 2.980 | 6.276 | 2.655 | 5.883 | 2.330 | 5.491 | 2.005 | 5.020 | 1.615 |
| 30 | 20 | 6.201 | 4.667 | 5.901 | 4.485 | 5.600 | 4.302 | 5.300 | 4.119 | 4.999 | 3.936 | 4.639 | 3.717 |
| | 21 | 6.416 | 4.438 | 6.093 | 4.220 | 5.769 | 4.001 | 5.446 | 3.783 | 5.122 | 3.565 | 4.734 | 3.303 |
| | 22 | 6.631 | 4.209 | 6.284 | 3.955 | 5.938 | 3.701 | 5.592 | 3.447 | 5.245 | 3.193 | 4.829 | 2.888 |
| | 23 | 6.845 | 3.979 | 6.476 | 3.690 | 6.107 | 3.400 | 5.737 | 3.111 | 5.368 | 2.821 | 4.925 | 2.474 |
| | 24 | 7.060 | 3.750 | 6.668 | 3.425 | 6.276 | 3.100 | 5.883 | 2.775 | 5.491 | 2.450 | 5.020 | 2.060 |

### *HEATING MODE*

| ID DB°C | Outdoor WB°C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -9 | | -6 | | -5 | | 6 | | 12 | | 15 | | 18 | |
| | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 15 | 3.189 | 3.189 | 3.610 | 3.610 | 3.750 | 3.750 | 5.291 | 5.291 | 6.132 | 6.132 | 6.553 | 6.553 | 6.973 | 6.973 |
| 17 | 3.106 | 3.106 | 3.514 | 3.514 | 3.677 | 3.677 | 5.285 | 5.285 | 6.106 | 6.106 | 6.535 | 6.535 | 6.964 | 6.964 |
| 19 | 3.022 | 3.022 | 3.418 | 3.418 | 3.605 | 3.605 | 5.279 | 5.279 | 6.080 | 6.080 | 6.517 | 6.517 | 6.954 | 6.954 |
| 21 | 2.938 | 2.938 | 3.340 | 3.340 | 3.532 | 3.532 | 5.241 | 5.241 | 6.055 | 6.055 | 6.500 | 6.500 | 6.945 | 6.945 |
| 23 | 2.855 | 2.855 | 3.279 | 3.279 | 3.459 | 3.459 | 5.173 | 5.173 | 6.029 | 6.029 | 6.482 | 6.482 | 6.935 | 6.935 |
| 25 | 2.771 | 2.771 | 3.218 | 3.218 | 3.387 | 3.387 | 5.105 | 5.105 | 6.003 | 6.003 | 6.464 | 6.464 | 6.926 | 6.926 |
| 27 | 2.688 | 2.688 | 3.157 | 3.157 | 3.314 | 3.314 | 5.037 | 5.037 | 5.977 | 5.977 | 6.447 | 6.447 | 6.917 | 6.917 |
| | FROST REGION | | | | | | | | | | | | | |

## R410A Models
## (Heatpump)

## MODEL : M5WM 025GR / M5LC 025CR

### *COOLING MODE*

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 6.276 | 4.244 | 5.917 | 3.885 | 5.599 | 3.567 | 5.282 | 3.250 | 4.964 | 2.932 | 4.583 | 2.551 |
| | 16 | 6.510 | 3.997 | 6.156 | 3.682 | 5.822 | 3.388 | 5.489 | 3.094 | 5.156 | 2.800 | 4.756 | 2.447 |
| 24 | 16 | 6.510 | 5.158 | 6.156 | 4.843 | 5.822 | 4.549 | 5.489 | 4.255 | 5.156 | 3.961 | 4.756 | 3.608 |
| | 17 | 6.743 | 4.911 | 6.394 | 4.640 | 6.045 | 4.370 | 5.696 | 4.099 | 5.347 | 3.828 | 4.928 | 3.504 |
| | 18 | 6.958 | 4.644 | 6.601 | 4.405 | 6.244 | 4.166 | 5.887 | 3.926 | 5.530 | 3.687 | 5.101 | 3.399 |
| | 19 | 7.177 | 4.367 | 6.835 | 4.102 | 6.494 | 3.837 | 6.153 | 3.572 | 5.753 | 3.446 | 5.274 | 3.295 |
| | 20 | 7.384 | 4.097 | 7.000 | 3.847 | 6.615 | 3.597 | 6.231 | 3.347 | 5.846 | 3.097 | 5.385 | 2.797 |
| 28 | 18 | 6.958 | 5.805 | 6.601 | 5.566 | 6.244 | 5.327 | 5.887 | 5.087 | 5.530 | 4.848 | 5.101 | 4.561 |
| | 19 | 7.177 | 5.528 | 6.835 | 5.263 | 6.494 | 4.998 | 6.153 | 4.733 | 5.753 | 4.607 | 5.274 | 4.456 |
| | 20 | 7.384 | 5.258 | 7.000 | 5.008 | 6.615 | 4.758 | 6.231 | 4.508 | 5.846 | 4.258 | 5.385 | 3.958 |
| | 21 | 7.596 | 4.977 | 7.192 | 4.685 | 6.788 | 4.393 | 6.384 | 4.102 | 5.980 | 3.810 | 5.495 | 3.460 |
| | 22 | 7.808 | 4.696 | 7.385 | 4.362 | 6.961 | 4.029 | 6.538 | 3.695 | 6.114 | 3.362 | 5.606 | 2.962 |
| | 23 | 8.020 | 4.415 | 7.577 | 4.040 | 7.134 | 3.664 | 6.691 | 3.289 | 6.248 | 2.914 | 5.717 | 2.463 |
| | 24 | 8.232 | 4.134 | 7.770 | 3.717 | 7.307 | 3.300 | 6.845 | 2.883 | 6.383 | 2.466 | 5.828 | 1.965 |
| 30 | 20 | 7.384 | 5.839 | 7.000 | 5.589 | 6.615 | 5.339 | 6.231 | 5.089 | 5.846 | 4.839 | 5.385 | 4.539 |
| | 21 | 7.596 | 5.558 | 7.192 | 5.266 | 6.788 | 4.974 | 6.384 | 4.682 | 5.980 | 4.391 | 5.495 | 4.040 |
| | 22 | 7.808 | 5.277 | 7.385 | 4.943 | 6.961 | 4.609 | 6.538 | 4.276 | 6.114 | 3.942 | 5.606 | 3.542 |
| | 23 | 8.020 | 4.996 | 7.577 | 4.620 | 7.134 | 4.245 | 6.691 | 3.870 | 6.248 | 3.494 | 5.717 | 3.044 |
| | 24 | 8.232 | 4.715 | 7.770 | 4.297 | 7.307 | 3.880 | 6.845 | 3.463 | 6.383 | 3.046 | 5.828 | 2.546 |

### *HEATING MODE*

| ID DB°C | Outdoor WB°C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -9 | | -6 | | -5 | | 6 | | 12 | | 15 | | 18 | |
| | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 15 | 3.898 | 3.898 | 4.412 | 4.412 | 4.583 | 4.583 | 6.467 | 6.467 | 7.495 | 7.495 | 8.009 | 8.009 | 8.523 | 8.523 |
| 17 | 3.796 | 3.796 | 4.288 | 4.288 | 4.495 | 4.495 | 6.459 | 6.459 | 7.469 | 7.469 | 7.994 | 7.994 | 8.519 | 8.519 |
| 19 | 3.694 | 3.694 | 4.165 | 4.165 | 4.408 | 4.408 | 6.452 | 6.452 | 7.443 | 7.443 | 7.979 | 7.979 | 8.515 | 8.515 |
| 21 | 3.591 | 3.591 | 4.069 | 4.069 | 4.320 | 4.320 | 6.410 | 6.410 | 7.418 | 7.418 | 7.964 | 7.964 | 8.511 | 8.511 |
| 23 | 3.489 | 3.489 | 4.001 | 4.001 | 4.233 | 4.233 | 6.334 | 6.334 | 7.392 | 7.392 | 7.950 | 7.950 | 8.507 | 8.507 |
| 25 | 3.387 | 3.387 | 3.932 | 3.932 | 4.145 | 4.145 | 6.258 | 6.258 | 7.366 | 7.366 | 7.935 | 7.935 | 8.503 | 8.503 |
| 27 | 3.285 | 3.285 | 3.864 | 3.864 | 4.057 | 4.057 | 6.182 | 6.182 | 7.341 | 7.341 | 7.920 | 7.920 | 8.499 | 8.499 |
| | FROST REGION | | | | | | | | | | | | | |

## R410A Models
## (Heatpump)

## MODEL : M5WM 030FR / M5LC 028CR

### *COOLING MODE*

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 7.648 | 4.989 | 7.255 | 4.595 | 6.798 | 4.252 | 6.341 | 3.908 | 5.884 | 3.565 | 5.336 | 3.153 |
| | 16 | 7.911 | 4.701 | 7.503 | 4.359 | 7.062 | 4.043 | 6.621 | 3.727 | 6.180 | 3.411 | 5.650 | 3.032 |
| 24 | 16 | 7.911 | 5.947 | 7.503 | 5.606 | 7.062 | 5.290 | 6.621 | 4.974 | 6.180 | 4.658 | 5.650 | 4.278 |
| | 17 | 8.175 | 5.659 | 7.750 | 5.370 | 7.325 | 5.081 | 6.900 | 4.793 | 6.475 | 4.504 | 5.965 | 4.157 |
| | 18 | 8.469 | 5.347 | 8.048 | 5.095 | 7.627 | 4.843 | 7.206 | 4.591 | 6.785 | 4.338 | 6.280 | 4.036 |
| | 19 | 8.770 | 5.014 | 8.387 | 4.696 | 8.004 | 4.378 | 7.621 | 4.060 | 7.155 | 3.994 | 6.595 | 3.915 |
| | 20 | 9.050 | 4.705 | 8.605 | 4.442 | 8.159 | 4.178 | 7.714 | 3.915 | 7.268 | 3.651 | 6.734 | 3.335 |
| 28 | 18 | 8.469 | 6.593 | 8.048 | 6.341 | 7.627 | 6.089 | 7.206 | 5.837 | 6.785 | 5.585 | 6.280 | 5.282 |
| | 19 | 8.770 | 6.261 | 8.387 | 5.942 | 8.004 | 5.624 | 7.621 | 5.306 | 7.155 | 5.240 | 6.595 | 5.161 |
| | 20 | 9.050 | 5.952 | 8.605 | 5.688 | 8.159 | 5.425 | 7.714 | 5.161 | 7.268 | 4.898 | 6.734 | 4.581 |
| | 21 | 9.337 | 5.623 | 8.863 | 5.311 | 8.389 | 4.999 | 7.915 | 4.687 | 7.441 | 4.375 | 6.872 | 4.001 |
| | 22 | 9.625 | 5.294 | 9.122 | 4.934 | 8.619 | 4.574 | 8.116 | 4.213 | 7.614 | 3.853 | 7.011 | 3.421 |
| | 23 | 9.912 | 4.965 | 9.381 | 4.556 | 8.849 | 4.148 | 8.318 | 3.740 | 7.787 | 3.331 | 7.149 | 2.841 |
| | 24 | 10.199 | 4.635 | 9.639 | 4.179 | 9.079 | 3.722 | 8.519 | 3.266 | 7.959 | 2.809 | 7.288 | 2.261 |
| 30 | 20 | 9.050 | 6.575 | 8.605 | 6.312 | 8.159 | 6.048 | 7.714 | 5.784 | 7.268 | 5.521 | 6.734 | 5.204 |
| | 21 | 9.337 | 6.246 | 8.863 | 5.934 | 8.389 | 5.622 | 7.915 | 5.311 | 7.441 | 4.999 | 6.872 | 4.624 |
| | 22 | 9.625 | 5.917 | 9.122 | 5.557 | 8.619 | 5.197 | 8.116 | 4.837 | 7.614 | 4.477 | 7.011 | 4.044 |
| | 23 | 9.912 | 5.588 | 9.381 | 5.179 | 8.849 | 4.771 | 8.318 | 4.363 | 7.787 | 3.954 | 7.149 | 3.464 |
| | 24 | 10.199 | 5.259 | 9.639 | 4.802 | 9.079 | 4.346 | 8.519 | 3.889 | 7.959 | 3.432 | 7.288 | 2.884 |

### *HEATING MODE*

| ID DB°C | Outdoor WB°C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -9 | | -6 | | -5 | | 6 | | 12 | | 15 | | 18 | |
| | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 15 | 4.607 | 4.607 | 5.214 | 5.214 | 5.416 | 5.416 | 7.643 | 7.643 | 8.858 | 8.858 | 9.465 | 9.465 | 10.072 | 10.072 |
| 17 | 4.486 | 4.486 | 5.121 | 5.121 | 5.289 | 5.289 | 7.634 | 7.634 | 8.703 | 8.703 | 9.305 | 9.305 | 9.908 | 9.908 |
| 19 | 4.365 | 4.365 | 5.029 | 5.029 | 5.162 | 5.162 | 7.625 | 7.625 | 8.548 | 8.548 | 9.146 | 9.146 | 9.743 | 9.743 |
| 21 | 4.244 | 4.244 | 4.908 | 4.908 | 5.035 | 5.035 | 7.499 | 7.499 | 8.393 | 8.393 | 8.986 | 8.986 | 9.579 | 9.579 |
| 23 | 4.124 | 4.124 | 4.759 | 4.759 | 4.907 | 4.907 | 7.257 | 7.257 | 8.239 | 8.239 | 8.827 | 8.827 | 9.414 | 9.414 |
| 25 | 4.003 | 4.003 | 4.609 | 4.609 | 4.780 | 4.780 | 7.015 | 7.015 | 8.084 | 8.084 | 8.667 | 8.667 | 9.250 | 9.250 |
| 27 | 3.882 | 3.882 | 4.460 | 4.460 | 4.653 | 4.653 | 6.773 | 6.773 | 7.929 | 7.929 | 8.507 | 8.507 | 9.086 | 9.086 |
| | FROST REGION | | | | | | | | | | | | | |

## R410A Models
## (Cooling only)

## MODEL : M5WM 020G / M5LC 020C (3 PHASE)

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 5.206 | 3.550 | 4.976 | 3.280 | 4.711 | 3.049 | 4.447 | 2.818 | 4.182 | 2.587 | 3.864 | 2.310 |
| | 16 | 5.402 | 3.346 | 5.156 | 3.114 | 4.892 | 2.902 | 4.628 | 2.689 | 4.365 | 2.477 | 4.049 | 2.222 |
| 24 | 16 | 5.402 | 4.235 | 5.156 | 4.003 | 4.892 | 3.791 | 4.628 | 3.579 | 4.365 | 3.366 | 4.049 | 3.112 |
| | 17 | 5.597 | 4.031 | 5.335 | 3.838 | 5.073 | 3.644 | 4.810 | 3.450 | 4.548 | 3.256 | 4.233 | 3.024 |
| | 18 | 5.809 | 3.810 | 5.541 | 3.642 | 5.274 | 3.474 | 5.006 | 3.306 | 4.739 | 3.138 | 4.417 | 2.936 |
| | 19 | 6.025 | 3.571 | 5.775 | 3.345 | 5.526 | 3.120 | 5.276 | 2.894 | 4.970 | 2.873 | 4.602 | 2.848 |
| | 20 | 6.229 | 3.353 | 5.935 | 3.175 | 5.640 | 2.997 | 5.346 | 2.819 | 5.052 | 2.641 | 4.699 | 2.428 |
| 28 | 18 | 5.809 | 4.699 | 5.541 | 4.531 | 5.274 | 4.363 | 5.006 | 4.195 | 4.739 | 4.027 | 4.417 | 3.825 |
| | 19 | 6.025 | 4.460 | 5.775 | 4.235 | 5.526 | 4.009 | 5.276 | 3.783 | 4.970 | 3.762 | 4.602 | 3.737 |
| | 20 | 6.229 | 4.243 | 5.935 | 4.065 | 5.640 | 3.887 | 5.346 | 3.709 | 5.052 | 3.531 | 4.699 | 3.317 |
| | 21 | 6.437 | 4.008 | 6.121 | 3.795 | 5.806 | 3.581 | 5.490 | 3.367 | 5.174 | 3.153 | 4.795 | 2.897 |
| | 22 | 6.646 | 3.774 | 6.308 | 3.525 | 5.971 | 3.275 | 5.634 | 3.025 | 5.297 | 2.776 | 4.892 | 2.476 |
| | 23 | 6.854 | 3.540 | 6.495 | 3.255 | 6.136 | 2.969 | 5.778 | 2.684 | 5.419 | 2.398 | 4.988 | 2.056 |
| | 24 | 7.062 | 3.306 | 6.682 | 2.985 | 6.302 | 2.663 | 5.922 | 2.342 | 5.541 | 2.021 | 5.085 | 1.635 |
| 30 | 20 | 6.229 | 4.687 | 5.935 | 4.509 | 5.640 | 4.331 | 5.346 | 4.153 | 5.052 | 3.975 | 4.699 | 3.762 |
| | 21 | 6.437 | 4.453 | 6.121 | 4.239 | 5.806 | 4.025 | 5.490 | 3.812 | 5.174 | 3.598 | 4.795 | 3.341 |
| | 22 | 6.646 | 4.219 | 6.308 | 3.969 | 5.971 | 3.720 | 5.634 | 3.470 | 5.297 | 3.220 | 4.892 | 2.921 |
| | 23 | 6.854 | 3.985 | 6.495 | 3.699 | 6.136 | 3.414 | 5.778 | 3.128 | 5.419 | 2.843 | 4.988 | 2.500 |
| | 24 | 7.062 | 3.750 | 6.682 | 3.429 | 6.302 | 3.108 | 5.922 | 2.787 | 5.541 | 2.465 | 5.085 | 2.080 |

## MODEL : M5WM 025G/ M5LC 025C (3 PHASE)

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 6.762 | 4.377 | 6.391 | 3.963 | 5.957 | 3.582 | 5.523 | 3.202 | 5.089 | 2.821 | 4.568 | 2.365 |
| | 16 | 6.971 | 4.123 | 6.585 | 3.751 | 6.168 | 3.397 | 5.751 | 3.042 | 5.333 | 2.687 | 4.832 | 2.261 |
| 24 | 16 | 6.971 | 5.382 | 6.585 | 5.010 | 6.168 | 4.655 | 5.751 | 4.301 | 5.333 | 3.946 | 4.832 | 3.520 |
| | 17 | 7.180 | 5.128 | 6.779 | 4.799 | 6.379 | 4.470 | 5.978 | 4.140 | 5.577 | 3.811 | 5.097 | 3.416 |
| | 18 | 7.418 | 4.859 | 7.023 | 4.562 | 6.627 | 4.264 | 6.231 | 3.967 | 5.836 | 3.669 | 5.361 | 3.312 |
| | 19 | 7.663 | 4.591 | 7.306 | 4.332 | 6.949 | 4.074 | 6.592 | 3.816 | 6.153 | 3.539 | 5.626 | 3.208 |
| | 20 | 7.889 | 4.305 | 7.476 | 3.999 | 7.064 | 3.692 | 6.651 | 3.386 | 6.239 | 3.079 | 5.744 | 2.712 |
| 28 | 18 | 7.418 | 6.118 | 7.023 | 5.820 | 6.627 | 5.523 | 6.231 | 5.225 | 5.836 | 4.928 | 5.361 | 4.571 |
| | 19 | 7.663 | 5.850 | 7.306 | 5.591 | 6.949 | 5.333 | 6.592 | 5.074 | 6.153 | 4.798 | 5.626 | 4.467 |
| | 20 | 7.889 | 5.564 | 7.476 | 5.258 | 7.064 | 4.951 | 6.651 | 4.645 | 6.239 | 4.338 | 5.744 | 3.971 |
| | 21 | 8.121 | 5.280 | 7.687 | 4.933 | 7.252 | 4.586 | 6.818 | 4.238 | 6.383 | 3.891 | 5.862 | 3.474 |
| | 22 | 8.354 | 4.996 | 7.898 | 4.608 | 7.441 | 4.220 | 6.984 | 3.831 | 6.528 | 3.443 | 5.980 | 2.977 |
| | 23 | 8.587 | 4.712 | 8.108 | 4.283 | 7.630 | 3.854 | 7.151 | 3.425 | 6.672 | 2.996 | 6.098 | 2.481 |
| | 24 | 8.819 | 4.428 | 8.319 | 3.958 | 7.818 | 3.488 | 7.318 | 3.018 | 6.817 | 2.548 | 6.216 | 1.984 |
| 30 | 20 | 7.889 | 6.194 | 7.476 | 5.887 | 7.064 | 5.581 | 6.651 | 5.274 | 6.239 | 4.968 | 5.744 | 4.600 |
| | 21 | 8.121 | 5.910 | 7.687 | 5.562 | 7.252 | 5.215 | 6.818 | 4.868 | 6.383 | 4.520 | 5.862 | 4.103 |
| | 22 | 8.354 | 5.626 | 7.898 | 5.238 | 7.441 | 4.849 | 6.984 | 4.461 | 6.528 | 4.073 | 5.980 | 3.607 |
| | 23 | 8.587 | 5.342 | 8.108 | 4.913 | 7.630 | 4.483 | 7.151 | 4.054 | 6.672 | 3.625 | 6.098 | 3.110 |
| | 24 | 8.819 | 5.058 | 8.319 | 4.588 | 7.818 | 4.118 | 7.318 | 3.648 | 6.817 | 3.178 | 6.216 | 2.613 |

## R410A Models
## (Cooling only)

## MODEL : M5WM 031F / M5LC 028C (3 PHASE)

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 7.648 | 4.989 | 7.255 | 4.595 | 6.798 | 4.252 | 6.341 | 3.908 | 5.884 | 3.565 | 5.336 | 3.153 |
| | 16 | 7.911 | 4.701 | 7.503 | 4.359 | 7.062 | 4.043 | 6.621 | 3.727 | 6.180 | 3.411 | 5.650 | 3.032 |
| 24 | 16 | 7.911 | 5.947 | 7.503 | 5.606 | 7.062 | 5.290 | 6.621 | 4.974 | 6.180 | 4.658 | 5.650 | 4.278 |
| | 17 | 8.175 | 5.659 | 7.750 | 5.370 | 7.325 | 5.081 | 6.900 | 4.793 | 6.475 | 4.504 | 5.965 | 4.157 |
| | 18 | 8.469 | 5.347 | 8.048 | 5.095 | 7.627 | 4.843 | 7.206 | 4.591 | 6.785 | 4.338 | 6.280 | 4.036 |
| | 19 | 8.770 | 5.014 | 8.387 | 4.696 | 8.004 | 4.378 | 7.621 | 4.060 | 7.155 | 3.994 | 6.595 | 3.915 |
| | 20 | 9.050 | 4.705 | 8.605 | 4.442 | 8.159 | 4.178 | 7.714 | 3.915 | 7.268 | 3.651 | 6.734 | 3.335 |
| 28 | 18 | 8.469 | 6.593 | 8.048 | 6.341 | 7.627 | 6.089 | 7.206 | 5.837 | 6.785 | 5.585 | 6.280 | 5.282 |
| | 19 | 8.770 | 6.261 | 8.387 | 5.942 | 8.004 | 5.624 | 7.621 | 5.306 | 7.155 | 5.240 | 6.595 | 5.161 |
| | 20 | 9.050 | 5.952 | 8.605 | 5.688 | 8.159 | 5.425 | 7.714 | 5.161 | 7.268 | 4.898 | 6.734 | 4.581 |
| | 21 | 9.337 | 5.623 | 8.863 | 5.311 | 8.389 | 4.999 | 7.915 | 4.687 | 7.441 | 4.375 | 6.872 | 4.001 |
| | 22 | 9.625 | 5.294 | 9.122 | 4.934 | 8.619 | 4.574 | 8.116 | 4.213 | 7.614 | 3.853 | 7.011 | 3.421 |
| | 23 | 9.912 | 4.965 | 9.381 | 4.556 | 8.849 | 4.148 | 8.318 | 3.740 | 7.787 | 3.331 | 7.149 | 2.841 |
| | 24 | 10.199 | 4.635 | 9.639 | 4.179 | 9.079 | 3.722 | 8.519 | 3.266 | 7.959 | 2.809 | 7.288 | 2.261 |
| 30 | 20 | 9.050 | 6.575 | 8.605 | 6.312 | 8.159 | 6.048 | 7.714 | 5.784 | 7.268 | 5.521 | 6.734 | 5.204 |
| | 21 | 9.337 | 6.246 | 8.863 | 5.934 | 8.389 | 5.622 | 7.915 | 5.311 | 7.441 | 4.999 | 6.872 | 4.624 |
| | 22 | 9.625 | 5.917 | 9.122 | 5.557 | 8.619 | 5.197 | 8.116 | 4.837 | 7.614 | 4.477 | 7.011 | 4.044 |
| | 23 | 9.912 | 5.588 | 9.381 | 5.179 | 8.849 | 4.771 | 8.318 | 4.363 | 7.787 | 3.954 | 7.149 | 3.464 |
| | 24 | 10.199 | 5.259 | 9.639 | 4.802 | 9.079 | 4.346 | 8.519 | 3.889 | 7.959 | 3.432 | 7.288 | 2.884 |

## R410A Models
## (Heatpump)

## MODEL : M5WM 020GR / M5LC 020CR (3 PHASE)

### *COOLING MODE*

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 5.206 | 3.550 | 4.976 | 3.280 | 4.711 | 3.049 | 4.447 | 2.818 | 4.182 | 2.587 | 3.864 | 2.310 |
| | 16 | 5.402 | 3.346 | 5.156 | 3.114 | 4.892 | 2.902 | 4.628 | 2.689 | 4.365 | 2.477 | 4.049 | 2.222 |
| 24 | 16 | 5.402 | 4.235 | 5.156 | 4.003 | 4.892 | 3.791 | 4.628 | 3.579 | 4.365 | 3.366 | 4.049 | 3.112 |
| | 17 | 5.597 | 4.031 | 5.335 | 3.838 | 5.073 | 3.644 | 4.810 | 3.450 | 4.548 | 3.256 | 4.233 | 3.024 |
| | 18 | 5.809 | 3.810 | 5.541 | 3.642 | 5.274 | 3.474 | 5.006 | 3.306 | 4.739 | 3.138 | 4.417 | 2.936 |
| | 19 | 6.025 | 3.571 | 5.775 | 3.345 | 5.526 | 3.120 | 5.276 | 2.894 | 4.970 | 2.873 | 4.602 | 2.848 |
| | 20 | 6.229 | 3.353 | 5.935 | 3.175 | 5.640 | 2.997 | 5.346 | 2.819 | 5.052 | 2.641 | 4.699 | 2.428 |
| 28 | 18 | 5.809 | 4.699 | 5.541 | 4.531 | 5.274 | 4.363 | 5.006 | 4.195 | 4.739 | 4.027 | 4.417 | 3.825 |
| | 19 | 6.025 | 4.460 | 5.775 | 4.235 | 5.526 | 4.009 | 5.276 | 3.783 | 4.970 | 3.762 | 4.602 | 3.737 |
| | 20 | 6.229 | 4.243 | 5.935 | 4.065 | 5.640 | 3.887 | 5.346 | 3.709 | 5.052 | 3.531 | 4.699 | 3.317 |
| | 21 | 6.437 | 4.008 | 6.121 | 3.795 | 5.806 | 3.581 | 5.490 | 3.367 | 5.174 | 3.153 | 4.795 | 2.897 |
| | 22 | 6.646 | 3.774 | 6.308 | 3.525 | 5.971 | 3.275 | 5.634 | 3.025 | 5.297 | 2.776 | 4.892 | 2.476 |
| | 23 | 6.854 | 3.540 | 6.495 | 3.255 | 6.136 | 2.969 | 5.778 | 2.684 | 5.419 | 2.398 | 4.988 | 2.056 |
| | 24 | 7.062 | 3.306 | 6.682 | 2.985 | 6.302 | 2.663 | 5.922 | 2.342 | 5.541 | 2.021 | 5.085 | 1.635 |
| 30 | 20 | 6.229 | 4.687 | 5.935 | 4.509 | 5.640 | 4.331 | 5.346 | 4.153 | 5.052 | 3.975 | 4.699 | 3.762 |
| | 21 | 6.437 | 4.453 | 6.121 | 4.239 | 5.806 | 4.025 | 5.490 | 3.812 | 5.174 | 3.598 | 4.795 | 3.341 |
| | 22 | 6.646 | 4.219 | 6.308 | 3.969 | 5.971 | 3.720 | 5.634 | 3.470 | 5.297 | 3.220 | 4.892 | 2.921 |
| | 23 | 6.854 | 3.985 | 6.495 | 3.699 | 6.136 | 3.414 | 5.778 | 3.128 | 5.419 | 2.843 | 4.988 | 2.500 |
| | 24 | 7.062 | 3.750 | 6.682 | 3.429 | 6.302 | 3.108 | 5.922 | 2.787 | 5.541 | 2.465 | 5.085 | 2.080 |

### *HEATING MODE*

| ID DB°C | Outdoor WB°C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -9 | | -6 | | -5 | | 6 | | 12 | | 15 | | 18 | |
| | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 15 | 3.278 | 3.278 | 3.710 | 3.710 | 3.854 | 3.854 | 5.438 | 5.438 | 6.302 | 6.302 | 6.735 | 6.735 | 7.167 | 7.167 |
| 17 | 3.192 | 3.192 | 3.598 | 3.598 | 3.776 | 3.776 | 5.432 | 5.432 | 6.259 | 6.259 | 6.697 | 6.697 | 7.135 | 7.135 |
| 19 | 3.106 | 3.106 | 3.485 | 3.485 | 3.698 | 3.698 | 5.425 | 5.425 | 6.215 | 6.215 | 6.659 | 6.659 | 7.103 | 7.103 |
| 21 | 3.020 | 3.020 | 3.401 | 3.401 | 3.620 | 3.620 | 5.376 | 5.376 | 6.171 | 6.171 | 6.621 | 6.621 | 7.071 | 7.071 |
| 23 | 2.934 | 2.934 | 3.344 | 3.344 | 3.542 | 3.542 | 5.285 | 5.285 | 6.127 | 6.127 | 6.583 | 6.583 | 7.039 | 7.039 |
| 25 | 2.848 | 2.848 | 3.287 | 3.287 | 3.464 | 3.464 | 5.194 | 5.194 | 6.083 | 6.083 | 6.545 | 6.545 | 7.007 | 7.007 |
| 27 | 2.762 | 2.762 | 3.230 | 3.230 | 3.386 | 3.386 | 5.103 | 5.103 | 6.039 | 6.039 | 6.507 | 6.507 | 6.975 | 6.975 |
| | FROST REGION | | | | | | | | | | | | | |

## R410A Models
## (Heatpump)

## MODEL : M5WM 025GR / M5LC 025CR (3 PHASE)

### *COOLING MODE*

| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 6.762 | 4.377 | 6.391 | 3.963 | 5.957 | 3.582 | 5.523 | 3.202 | 5.089 | 2.821 | 4.568 | 2.365 |
| | 16 | 6.971 | 4.123 | 6.585 | 3.751 | 6.168 | 3.397 | 5.751 | 3.042 | 5.333 | 2.687 | 4.832 | 2.261 |
| 24 | 16 | 6.971 | 5.382 | 6.585 | 5.010 | 6.168 | 4.655 | 5.751 | 4.301 | 5.333 | 3.946 | 4.832 | 3.520 |
| | 17 | 7.180 | 5.128 | 6.779 | 4.799 | 6.379 | 4.470 | 5.978 | 4.140 | 5.577 | 3.811 | 5.097 | 3.416 |
| | 18 | 7.418 | 4.859 | 7.023 | 4.562 | 6.627 | 4.264 | 6.231 | 3.967 | 5.836 | 3.669 | 5.361 | 3.312 |
| | 19 | 7.663 | 4.591 | 7.306 | 4.332 | 6.949 | 4.074 | 6.592 | 3.816 | 6.153 | 3.539 | 5.626 | 3.208 |
| | 20 | 7.889 | 4.305 | 7.476 | 3.999 | 7.064 | 3.692 | 6.651 | 3.386 | 6.239 | 3.079 | 5.744 | 2.712 |
| 28 | 18 | 7.418 | 6.118 | 7.023 | 5.820 | 6.627 | 5.523 | 6.231 | 5.225 | 5.836 | 4.928 | 5.361 | 4.571 |
| | 19 | 7.663 | 5.850 | 7.306 | 5.591 | 6.949 | 5.333 | 6.592 | 5.074 | 6.153 | 4.798 | 5.626 | 4.467 |
| | 20 | 7.889 | 5.564 | 7.476 | 5.258 | 7.064 | 4.951 | 6.651 | 4.645 | 6.239 | 4.338 | 5.744 | 3.971 |
| | 21 | 8.121 | 5.280 | 7.687 | 4.933 | 7.252 | 4.586 | 6.818 | 4.238 | 6.383 | 3.891 | 5.862 | 3.474 |
| | 22 | 8.354 | 4.996 | 7.898 | 4.608 | 7.441 | 4.220 | 6.984 | 3.831 | 6.528 | 3.443 | 5.980 | 2.977 |
| | 23 | 8.587 | 4.712 | 8.108 | 4.283 | 7.630 | 3.854 | 7.151 | 3.425 | 6.672 | 2.996 | 6.098 | 2.481 |
| | 24 | 8.819 | 4.428 | 8.319 | 3.958 | 7.818 | 3.488 | 7.318 | 3.018 | 6.817 | 2.548 | 6.216 | 1.984 |
| 30 | 20 | 7.889 | 6.194 | 7.476 | 5.887 | 7.064 | 5.581 | 6.651 | 5.274 | 6.239 | 4.968 | 5.744 | 4.600 |
| | 21 | 8.121 | 5.910 | 7.687 | 5.562 | 7.252 | 5.215 | 6.818 | 4.868 | 6.383 | 4.520 | 5.862 | 4.103 |
| | 22 | 8.354 | 5.626 | 7.898 | 5.238 | 7.441 | 4.849 | 6.984 | 4.461 | 6.528 | 4.073 | 5.980 | 3.607 |
| | 23 | 8.587 | 5.342 | 8.108 | 4.913 | 7.630 | 4.483 | 7.151 | 4.054 | 6.672 | 3.625 | 6.098 | 3.110 |
| | 24 | 8.819 | 5.058 | 8.319 | 4.588 | 7.818 | 4.118 | 7.318 | 3.648 | 6.817 | 3.178 | 6.216 | 2.613 |

### *HEATING MODE*

| ID DB°C | Outdoor WB°C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -9 | | -6 | | -5 | | 6 | | 12 | | 15 | | 18 | |
| | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 15 | 4.075 | 4.075 | 4.612 | 4.612 | 4.791 | 4.791 | 6.761 | 6.761 | 7.835 | 7.835 | 8.373 | 8.373 | 8.910 | 8.910 |
| 17 | 3.968 | 3.968 | 4.514 | 4.514 | 4.685 | 4.685 | 6.753 | 6.753 | 7.732 | 7.732 | 8.270 | 8.270 | 8.807 | 8.807 |
| 19 | 3.861 | 3.861 | 4.416 | 4.416 | 4.579 | 4.579 | 6.745 | 6.745 | 7.628 | 7.628 | 8.167 | 8.167 | 8.705 | 8.705 |
| 21 | 3.755 | 3.755 | 4.311 | 4.311 | 4.473 | 4.473 | 6.654 | 6.654 | 7.525 | 7.525 | 8.063 | 8.063 | 8.602 | 8.602 |
| 23 | 3.648 | 3.648 | 4.199 | 4.199 | 4.367 | 4.367 | 6.481 | 6.481 | 7.421 | 7.421 | 7.960 | 7.960 | 8.499 | 8.499 |
| 25 | 3.541 | 3.541 | 4.086 | 4.086 | 4.260 | 4.260 | 6.308 | 6.308 | 7.318 | 7.318 | 7.857 | 7.857 | 8.397 | 8.397 |
| 27 | 3.434 | 3.434 | 3.974 | 3.974 | 4.154 | 4.154 | 6.134 | 6.134 | 7.214 | 7.214 | 7.754 | 7.754 | 8.294 | 8.294 |
| | FROST REGION | | | | | | | | | | | | | |

## R410A Models
## (Heatpump)

## MODEL : M5WM 030FR / M5LC 028CR (3 PHASE)

### *COOLING MODE*

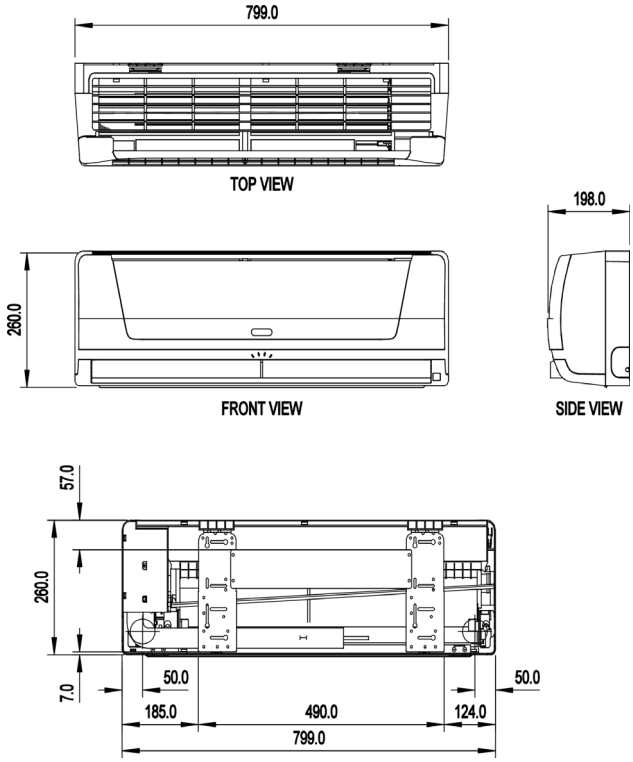
| ID DB°C | ID WB°C | Outdoor DB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | 25 | | 30 | | 35 | | 40 | | 46 | |
| | | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 20 | 15 | 7.648 | 4.989 | 7.255 | 4.595 | 6.798 | 4.252 | 6.341 | 3.908 | 5.884 | 3.565 | 5.336 | 3.153 |
| | 16 | 7.911 | 4.701 | 7.503 | 4.359 | 7.062 | 4.043 | 6.621 | 3.727 | 6.180 | 3.411 | 5.650 | 3.032 |
| 24 | 16 | 7.911 | 5.947 | 7.503 | 5.606 | 7.062 | 5.290 | 6.621 | 4.974 | 6.180 | 4.658 | 5.650 | 4.278 |
| | 17 | 8.175 | 5.659 | 7.750 | 5.370 | 7.325 | 5.081 | 6.900 | 4.793 | 6.475 | 4.504 | 5.965 | 4.157 |
| | 18 | 8.469 | 5.347 | 8.048 | 5.095 | 7.627 | 4.843 | 7.206 | 4.591 | 6.785 | 4.338 | 6.280 | 4.036 |
| | 19 | 8.770 | 5.014 | 8.387 | 4.696 | 8.004 | 4.378 | 7.621 | 4.060 | 7.155 | 3.994 | 6.595 | 3.915 |
| | 20 | 9.050 | 4.705 | 8.605 | 4.442 | 8.159 | 4.178 | 7.714 | 3.915 | 7.268 | 3.651 | 6.734 | 3.335 |
| 28 | 18 | 8.469 | 6.593 | 8.048 | 6.341 | 7.627 | 6.089 | 7.206 | 5.837 | 6.785 | 5.585 | 6.280 | 5.282 |
| | 19 | 8.770 | 6.261 | 8.387 | 5.942 | 8.004 | 5.624 | 7.621 | 5.306 | 7.155 | 5.240 | 6.595 | 5.161 |
| | 20 | 9.050 | 5.952 | 8.605 | 5.688 | 8.159 | 5.425 | 7.714 | 5.161 | 7.268 | 4.898 | 6.734 | 4.581 |
| | 21 | 9.337 | 5.623 | 8.863 | 5.311 | 8.389 | 4.999 | 7.915 | 4.687 | 7.441 | 4.375 | 6.872 | 4.001 |
| | 22 | 9.625 | 5.294 | 9.122 | 4.934 | 8.619 | 4.574 | 8.116 | 4.213 | 7.614 | 3.853 | 7.011 | 3.421 |
| | 23 | 9.912 | 4.965 | 9.381 | 4.556 | 8.849 | 4.148 | 8.318 | 3.740 | 7.787 | 3.331 | 7.149 | 2.841 |
| | 24 | 10.199 | 4.635 | 9.639 | 4.179 | 9.079 | 3.722 | 8.519 | 3.266 | 7.959 | 2.809 | 7.288 | 2.261 |
| 30 | 20 | 9.050 | 6.575 | 8.605 | 6.312 | 8.159 | 6.048 | 7.714 | 5.784 | 7.268 | 5.521 | 6.734 | 5.204 |
| | 21 | 9.337 | 6.246 | 8.863 | 5.934 | 8.389 | 5.622 | 7.915 | 5.311 | 7.441 | 4.999 | 6.872 | 4.624 |
| | 22 | 9.625 | 5.917 | 9.122 | 5.557 | 8.619 | 5.197 | 8.116 | 4.837 | 7.614 | 4.477 | 7.011 | 4.044 |
| | 23 | 9.912 | 5.588 | 9.381 | 5.179 | 8.849 | 4.771 | 8.318 | 4.363 | 7.787 | 3.954 | 7.149 | 3.464 |
| | 24 | 10.199 | 5.259 | 9.639 | 4.802 | 9.079 | 4.346 | 8.519 | 3.889 | 7.959 | 3.432 | 7.288 | 2.884 |

### *HEATING MODE*

| ID DB°C | Outdoor WB°C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -9 | | -6 | | -5 | | 6 | | 12 | | 15 | | 18 | |
| | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) | TC(kW) | SC(kW) |
| 15 | 4.607 | 4.607 | 5.214 | 5.214 | 5.416 | 5.416 | 7.643 | 7.643 | 8.858 | 8.858 | 9.465 | 9.465 | 10.072 | 10.072 |
| 17 | 4.486 | 4.486 | 5.121 | 5.121 | 5.289 | 5.289 | 7.634 | 7.634 | 8.703 | 8.703 | 9.305 | 9.305 | 9.908 | 9.908 |
| 19 | 4.365 | 4.365 | 5.029 | 5.029 | 5.162 | 5.162 | 7.625 | 7.625 | 8.548 | 8.548 | 9.146 | 9.146 | 9.743 | 9.743 |
| 21 | 4.244 | 4.244 | 4.908 | 4.908 | 5.035 | 5.035 | 7.499 | 7.499 | 8.393 | 8.393 | 8.986 | 8.986 | 9.579 | 9.579 |
| 23 | 4.124 | 4.124 | 4.759 | 4.759 | 4.907 | 4.907 | 7.257 | 7.257 | 8.239 | 8.239 | 8.827 | 8.827 | 9.414 | 9.414 |
| 25 | 4.003 | 4.003 | 4.609 | 4.609 | 4.780 | 4.780 | 7.015 | 7.015 | 8.084 | 8.084 | 8.667 | 8.667 | 9.250 | 9.250 |
| 27 | 3.882 | 3.882 | 4.460 | 4.460 | 4.653 | 4.653 | 6.773 | 6.773 | 7.929 | 7.929 | 8.507 | 8.507 | 9.086 | 9.086 |
| | FROST REGION | | | | | | | | | | | | | |

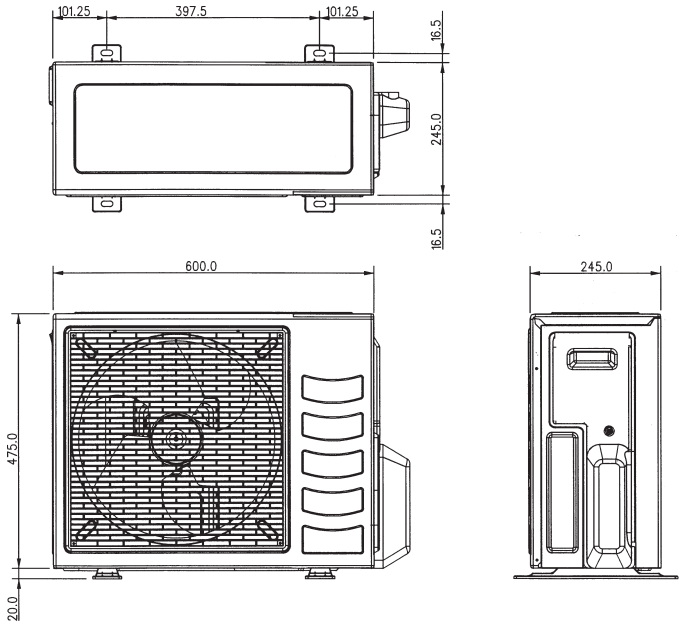
# Outlines And Dimensions

**INDOOR UNIT**
**MODEL : MWM 007G / 007GR / 009G / 009GR**
**M5WM 007G / 007GR / 009G / 009GR**



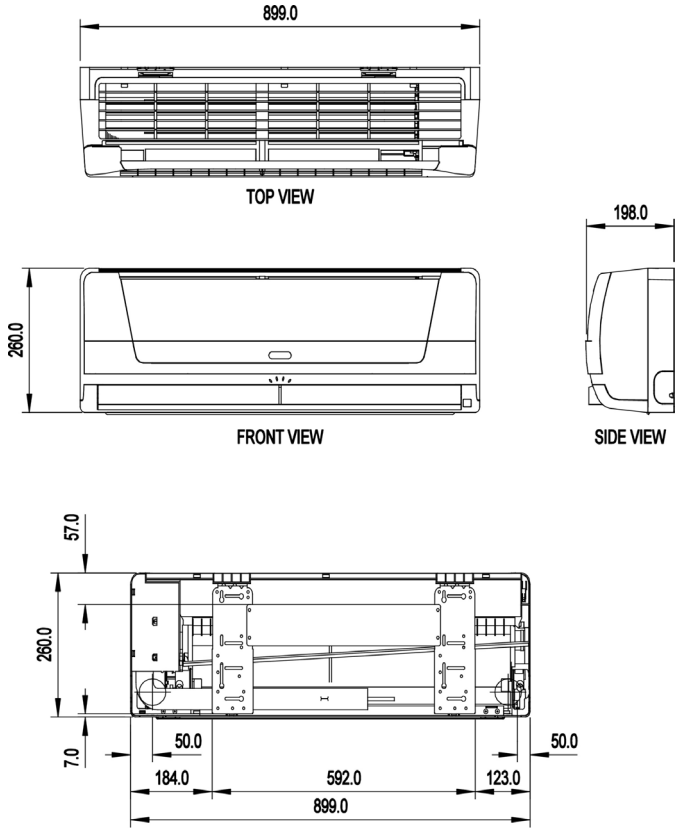

Note : Dimension in mm

**OUTDOOR UNIT**
**MODEL : MLC 009C / 009CR**
**M5LC 007C / 007CR**



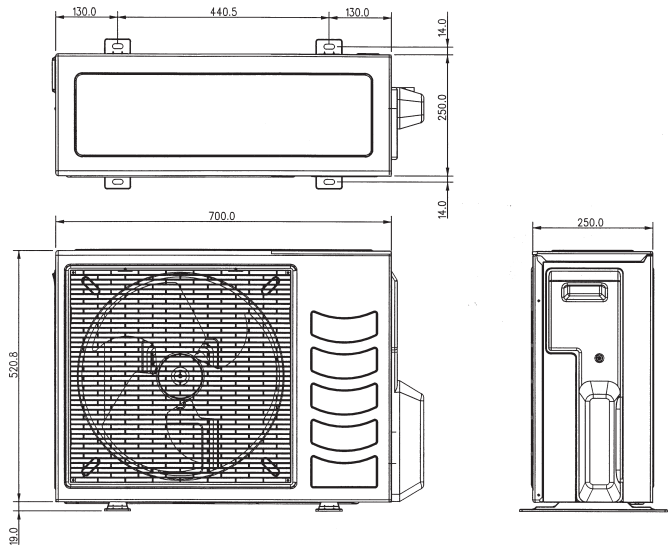

Note : Dimension in mm

## INDOOR UNIT
## MODEL : MWM 010G / 010GR / 015G / 015GR
## M5WM 010G / 010GR / 015G / 015GR



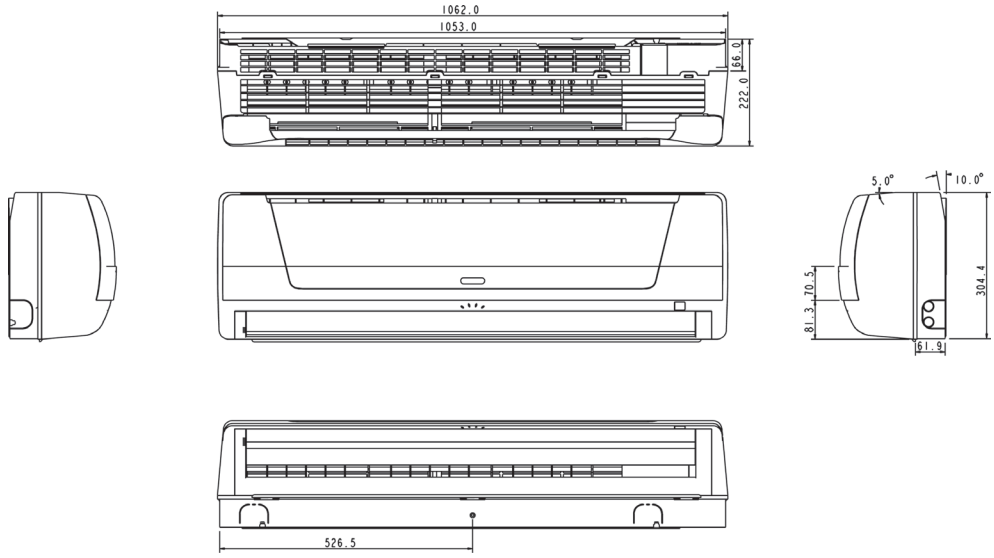

Note : Dimension in mm

## OUTDOOR UNIT
## MODEL : MLC 010C / 010CR / 015C / 015CR
## M5LC 010C / 010CR / 015C / 015CR



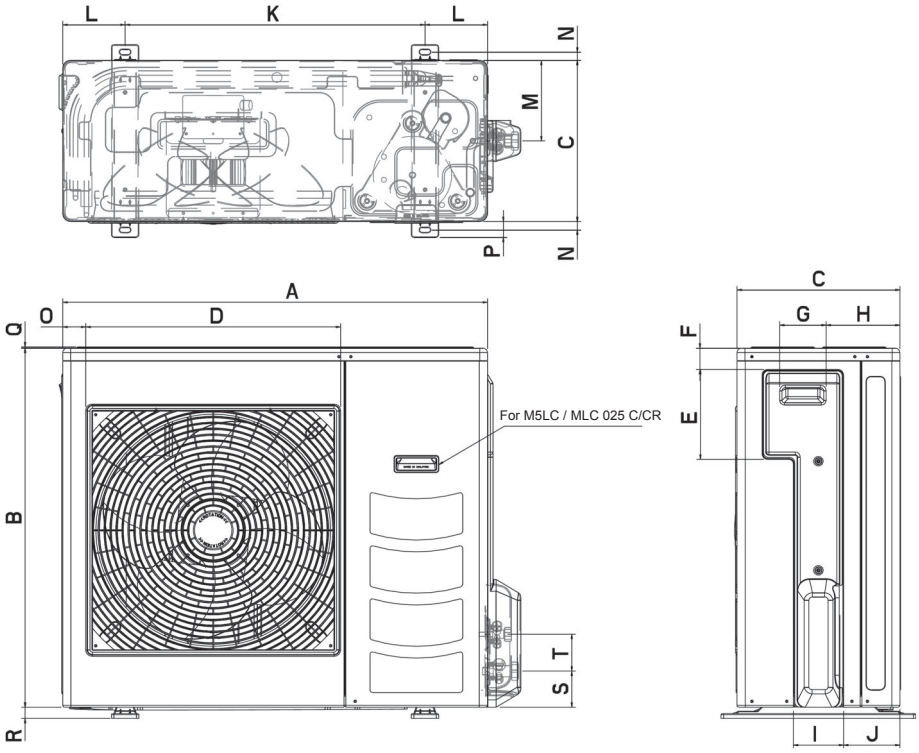

Note : Dimension in mm

## INDOOR UNIT
## MODEL : MWM 020G / 020GR / 025G / 025GR
## M5WM 020G / 020GR / 025G / 025GR




Note : Dimension in mm

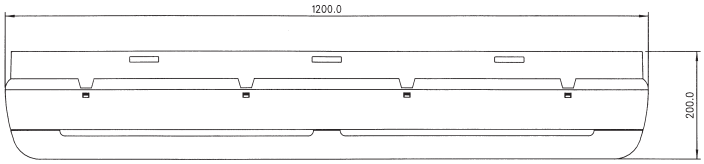
## OUTDOOR UNIT
## MODEL : MLC 018C / 020C / 020CR / 025C / 025CR
## M5LC 020C / 020CR / 025C / 025CR



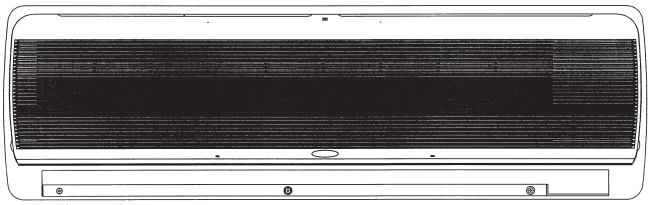

Note : Dimension in mm

| MODEL | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MLC 018C/020C/020CR M5LC 020C/020CR | 855 | 628 | 328 | 508 | 181 | 44 | 93 | 149 | 101 | 113 | 603 | 126 | 164 | 17 | 49 | 32 | 3 | 23 | 73 | 75 |
| MLC 025C/025CR M5LC 025C/025CR | 855 | 730 | 328 | 513 | 182 | 44 | 93 | 149 | 101 | 113 | 603 | 126 | 164 | 17 | 47 | 32 | 3 | 23 | 73 | 75 |

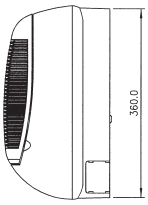
## INDOOR UNIT
## MODEL : M5WM 031F / 030FR



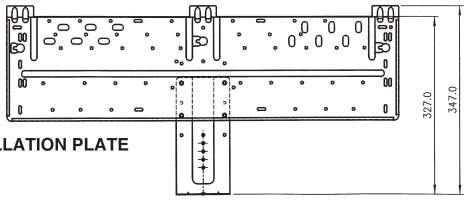

TOP VIEW



FRONT VIEW



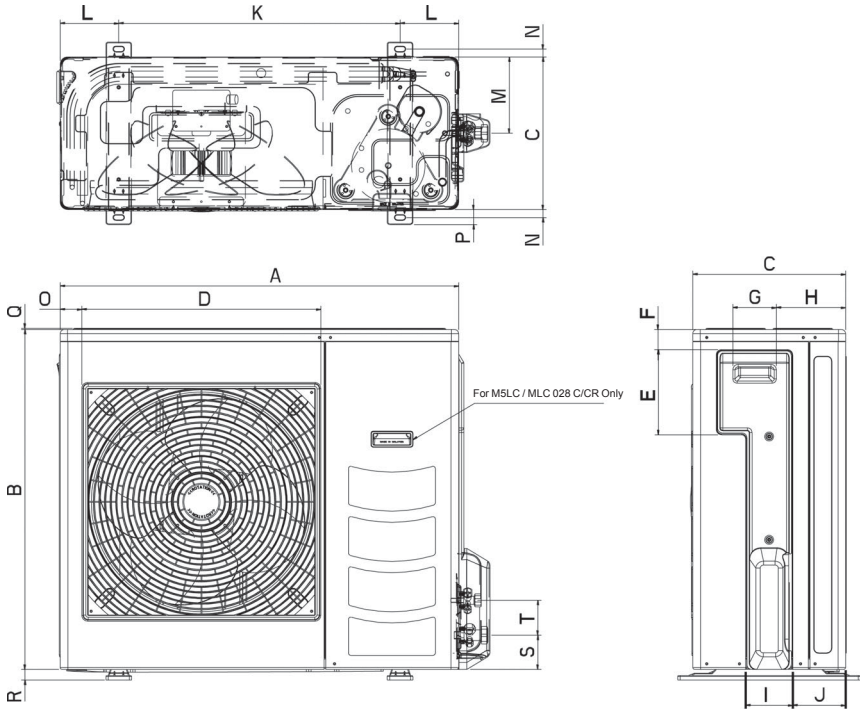

SIDE VIEW




INSTALLATION PLATE

Note : Dimension in mm

## OUTDOOR UNIT
## MODEL : M5LC 028C / 028CR




Note : Dimension in mm

| MODEL | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MLC 028C/028CR<br>M5LC 028C/028CR | 855 | 730 | 328 | 513 | 182 | 44 | 93 | 149 | 101 | 113 | 603 | 126 | 164 | 17 | 47 | 32 | 3 | 23 | 73 | 75 |

# Electrical Data

| MODEL | INDOOR UNIT | | MWM 007G | MWM 009G |
|---|---|---|---|---|
| | OUTDOOR UNIT | | MLC 007C | MLC 009C |
| INDOOR MOTOR | INSULATION GRADE | | E | E |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | 220-240/1/50 |
| | RATED INPUT POWER | W | 23 | 24 |
| | RATED RUNNING CURRENT | A | 0.11 | 0.11 |
| | MOTOR OUTPUT | W | 8 | 8 |
| | POLES | | 4 | 4 |
| OUTDOOR MOTOR | INSULATION GRADE | | B | B |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | 220-240/1/50 |
| | RATED INPUT POWER | W | 41 | 45 |
| | RATED RUNNING CURRENT | A | 0.19 | 0.2 |
| | MOTOR OUTPUT | W | 20 | 20 |
| | POLES | | 6 | 6 |
| COMPRESSOR | INSULATION GRADE | | E | E |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | 220-240/1/50 |
| | CAPACITOR | mF | 20 | 30 |
| | RATED INPUT POWER | W | 526 | 850 |
| | RATED RUNNING CURRENT | A | 2.45 | 3.8 |
| | LOCKED ROTOR AMP. | A | 11.3 | 18 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*

| MODEL | INDOOR UNIT | | MWM 010G | MWM 015G |
|---|---|---|---|---|
| | OUTDOOR UNIT | | MLC 010C | MLC 015C |
| INDOOR MOTOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 26 | 29 |
| | RATED RUNNING CURRENT | A | 0.11 | 0.13 |
| | MOTOR OUTPUT | W | 9 | 13 |
| | POLES | | 4 | |
| OUTDOOR MOTOR | INSULATION GRADE | | B | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 52 | 59 |
| | RATED RUNNING CURRENT | A | 0.23 | 0.26 |
| | MOTOR OUTPUT | W | 35 | 35 |
| | POLES | | 6 | |
| COMPRESSOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | CAPACITOR | mF | 30 | 30 |
| | RATED INPUT POWER | W | 783 | 1112 |
| | RATED RUNNING CURRENT | A | 3.5 | 5 |
| | LOCKED ROTOR AMP. | A | 19 | 21 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*

| MODEL | INDOOR UNIT | | MWM 020G | MWM 020G |
|---|---|---|---|---|
| | OUTDOOR UNIT | | MLC 018C | MLC 020C |
| INDOOR MOTOR | INSULATION GRADE | | B | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 47 | |
| | RATED RUNNING CURRENT | A | 0.22 | |
| | MOTOR OUTPUT | W | 20 | |
| | POLES | | 4 | |
| OUTDOOR MOTOR | INSULATION GRADE | | B | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 120 | 120 |
| | RATED RUNNING CURRENT | A | 0.53 | 0.53 |
| | MOTOR OUTPUT | W | 64 | 64 |
| | POLES | | 6 | |
| COMPRESSOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | CAPACITOR | mF | 60 | 60 |
| | RATED INPUT POWER | W | 1643 | 1640 |
| | RATED RUNNING CURRENT | A | 7.37 | 7.2 |
| | LOCKED ROTOR AMP. | A | 32 | 32 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*

| MODEL | INDOOR UNIT | | MWM 025G | MWM 030F |
|---|---|---|---|---|
| | OUTDOOR UNIT | | MLC 025C | MLC 028C |
| INDOOR MOTOR | INSULATION GRADE | | B | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 66 | 71 |
| | RATED RUNNING CURRENT | A | 0.29 | 0.30 |
| | MOTOR OUTPUT | W | 25 | 40 |
| | POLES | | 4 | |
| OUTDOOR MOTOR | INSULATION GRADE | | B | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 124 | 142 |
| | RATED RUNNING CURRENT | A | 0.54 | 0.62 |
| | MOTOR OUTPUT | W | 75 | 75 |
| | POLES | | 6 | |
| COMPRESSOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | CAPACITOR | mF | 50 | 50 |
| | RATED INPUT POWER | W | 2340 | 2519 |
| | RATED RUNNING CURRENT | A | 10.5 | 12.2 |
| | LOCKED ROTOR AMP. | A | 54 | 66 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*

| MODEL | INDOOR UNIT | | MWM 009GR |
|---|---|---|---|
| | OUTDOOR UNIT | | MLC 009CR |
| INDOOR MOTOR | INSULATION GRADE | | E |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 |
| | RATED INPUT POWER | W | 24 |
| | RATED RUNNING CURRENT | A | 0.11 |
| | MOTOR OUTPUT | W | 8 |
| | POLES | | 4 |
| OUTDOOR MOTOR | INSULATION GRADE | | B |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 |
| | RATED INPUT POWER | W | 40 |
| | RATED RUNNING CURRENT | A | 0.18 |
| | MOTOR OUTPUT | W | 20 |
| | POLES | | 6 |
| COMPRESSOR | INSULATION GRADE | | E |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 |
| | CAPACITOR | mF | 25 |
| | RATED INPUT POWER (COOLING) | W | 846 |
| | RATED INPUT POWER (HEATING) | W | 686 |
| | RATED RUNNING CURRENT (COOLING) | A | 3.7 |
| | RATED RUNNING CURRENT (HEATING) | A | 3.1 |
| | LOCKED ROTOR AMP. | A | 18 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*

| MODEL | INDOOR UNIT | | MWM 010GR | MWM 015GR |
|---|---|---|---|---|
| | OUTDOOR UNIT | | MLC 010CR | MLC 015CR |
| INDOOR MOTOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 26 | 29 |
| | RATED RUNNING CURRENT | A | 0.11 | 0.13 |
| | MOTOR OUTPUT | W | 9 | 13 |
| | POLES | | 4 | |
| OUTDOOR MOTOR | INSULATION GRADE | | B | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 52 | 59 |
| | RATED RUNNING CURRENT | A | 0.23 | 0.26 |
| | MOTOR OUTPUT | W | 35 | 35 |
| | POLES | | 6 | 6 |
| COMPRESSOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | CAPACITOR | mF | 30 | 35 |
| | RATED INPUT POWER (COOLING) | W | 759 | 1012 |
| | RATED INPUT POWER (HEATING) | W | 679 | 892 |
| | RATED RUNNING CURRENT (COOLING) | A | 3.4 | 4.7 |
| | RATED RUNNING CURRENT (HEATING) | A | 3.0 | 4.1 |
| | LOCKED ROTOR AMP. | A | 19 | 24 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*

| MODEL | INDOOR UNIT | | MWM 020GR | MWM 020GR |
|---|---|---|---|---|
| | OUTDOOR UNIT | | MLC 018CR | MLC 020CR |
| INDOOR MOTOR | INSULATION GRADE | | B | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 47 | |
| | RATED RUNNING CURRENT | A | 0.22 | |
| | MOTOR OUTPUT | W | 20 | |
| | POLES | | 4 | |
| OUTDOOR MOTOR | INSULATION GRADE | | B | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 120 | 120 |
| | RATED RUNNING CURRENT | A | 0.53 | 0.53 |
| | MOTOR OUTPUT | W | 64 | 75 |
| | POLES | | 6 | |
| COMPRESSOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | CAPACITOR | mF | 60 | 60 |
| | RATED INPUT POWER (COOLING) | W | 1653 | 1640 |
| | RATED INPUT POWER (HEATING) | W | 1493 | 1590 |
| | RATED RUNNING CURRENT (COOLING) | A | 7.4 | 7.2 |
| | RATED RUNNING CURRENT (HEATING) | A | 6.7 | 7 |
| | LOCKED ROTOR AMP. | A | 32 | |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*

| MODEL | INDOOR UNIT | | MWM 025GR | MWM 030F |
|---|---|---|---|---|
| | OUTDOOR UNIT | | MLC 025CR | MLC 028CR |
| INDOOR MOTOR | INSULATION GRADE | | B | B |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 66 | 71 |
| | RATED RUNNING CURRENT | A | 0.29 | 0.30 |
| | MOTOR OUTPUT | W | 25 | |
| | POLES | | 4 | |
| OUTDOOR MOTOR | INSULATION GRADE | | B | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 124 | 142 |
| | RATED RUNNING CURRENT | A | 0.54 | 0.62 |
| | MOTOR OUTPUT | W | 75 | |
| | POLES | | 6 | |
| COMPRESSOR | INSULATION GRADE | | | E |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | CAPACITOR | mF | 50 | 50 |
| | RATED INPUT POWER (COOLING) | W | 2340 | 2570 |
| | RATED INPUT POWER (HEATING) | W | 2260 | 2610 |
| | RATED RUNNING CURRENT (COOLING) | A | 10.49 | 12.3 |
| | RATED RUNNING CURRENT (HEATING) | A | 10.24 | 12.4 |
| | LOCKED ROTOR AMP. | A | 54 | 66 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*

| MODEL | INDOOR UNIT | | M5WM 007G | M5WM 009G |
|---|---|---|---|---|
| | OUTDOOR UNIT | | M5LC 007C | M5LC 010C |
| INDOOR MOTOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 24 | |
| | RATED RUNNING CURRENT | A | 0.11 | |
| | MOTOR OUTPUT | W | 8 | |
| | POLES | | 4 | |
| OUTDOOR MOTOR | INSULATION GRADE | | B | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 40 | 52 |
| | RATED RUNNING CURRENT | A | 0.18 | 0.23 |
| | MOTOR OUTPUT | W | 20 | 35 |
| | POLES | | 6 | |
| COMPRESSOR | INSULATION GRADE | | E | E |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | CAPACITOR | mF | 15 | 25 |
| | RATED INPUT POWER | W | 556 | 789 |
| | RATED RUNNING CURRENT | A | 2.6 | 3.6 |
| | LOCKED ROTOR AMP. | A | 12 | 19 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*

| MODEL | INDOOR UNIT | | M5WM 010G | M5WM 015G |
|---|---|---|---|---|
| | OUTDOOR UNIT | | M5LC 010C | M5LC 015C |
| INDOOR MOTOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 26 | 29 |
| | RATED RUNNING CURRENT | A | 0.11 | 0.13 |
| | MOTOR OUTPUT | W | 9 | 13 |
| | POLES | | 4 | 4 |
| OUTDOOR MOTOR | INSULATION GRADE | | B | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 52 | 59 |
| | RATED RUNNING CURRENT | A | 0.23 | 0.26 |
| | MOTOR OUTPUT | W | 35 | 35 |
| | POLES | | 6 | 6 |
| COMPRESSOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | CAPACITOR | mF | 25 | 30 |
| | RATED INPUT POWER | W | 789 | 1142 |
| | RATED RUNNING CURRENT | A | 3.6 | 5.1 |
| | LOCKED ROTOR AMP. | A | 19 | 24 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*

| MODEL | INDOOR UNIT | | M5WM 020G | M5WM 025G |
|---|---|---|---|---|
| | OUTDOOR UNIT | | M5LC 020C | M5LC 025C |
| INDOOR MOTOR | INSULATION GRADE | | B | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 47 | 66 |
| | RATED RUNNING CURRENT | A | 0.22 | 0.29 |
| | MOTOR OUTPUT | W | 20 | 25 |
| | POLES | | 4 | |
| OUTDOOR MOTOR | INSULATION GRADE | | B | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 120 | 132 |
| | RATED RUNNING CURRENT | A | 0.53 | 0.58 |
| | MOTOR OUTPUT | W | 64 | 75 |
| | POLES | | 6 | |
| COMPRESSOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 220 - 240 / 1 / 50 / <380 - 415 / 3 / 50> | |
| | CAPACITOR | mF | 45 / - | 45 / - |
| | RATED INPUT POWER | W | 1485 / <1496> | 1717 / <1997> |
| | RATED RUNNING CURRENT | A | 6.5 / <3.0> | 7.5 / <3.9> |
| | LOCKED ROTOR AMP. | A | 27 / <19> | 32 / <26> |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*

| MODEL | INDOOR UNIT | | M5WM 031F |
|---|---|---|---|
| | OUTDOOR UNIT | | M5LC 028C |
| INDOOR MOTOR | INSULATION GRADE | | B |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 |
| | RATED INPUT POWER | W | 71 |
| | RATED RUNNING CURRENT | A | 0.30 |
| | MOTOR OUTPUT | W | IP24 |
| | POLES | | 4 |
| OUTDOOR MOTOR | INSULATION GRADE | | B |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 |
| | RATED INPUT POWER | W | 142 |
| | RATED RUNNING CURRENT | A | 0.62 |
| | MOTOR OUTPUT | W | 75 |
| | POLES | | 6 |
| COMPRESSOR | INSULATION GRADE | | E |
| | POWER SOURCE | V/Ph/Hz | 220 - 240 / 1 / 50 / <380 - 415 / 3 / 50> |
| | CAPACITOR | mF | 45 / - |
| | RATED INPUT POWER | W | 2360 / <2423> |
| | RATED RUNNING CURRENT | A | 11.27 / <4.29> |
| | LOCKED ROTOR AMP. | A | 63 / <26> |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*

| MODEL | INDOOR UNIT | | M5WM 007GR | M5WM 009GR |
|---|---|---|---|---|
| | OUTDOOR UNIT | | M5LC 007CR | M5LC 010CR |
| INDOOR MOTOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 24 | |
| | RATED RUNNING CURRENT | A | 0.11 | |
| | MOTOR OUTPUT | W | 8 | |
| | POLES | | 4 | |
| OUTDOOR MOTOR | INSULATION GRADE | | B | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 40 | 52 |
| | RATED RUNNING CURRENT | A | 0.18 | 0.23 |
| | MOTOR OUTPUT | W | 20 | |
| | POLES | | 6 | |
| COMPRESSOR | INSULATION GRADE | | E | E |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | CAPACITOR | mF | 15 | 25 |
| | RATED INPUT POWER (COOLING) | W | 616 | 784 |
| | RATED INPUT POWER (HEATING) | W | 486 | 669 |
| | RATED RUNNING CURRENT (COOLING) | A | 2.8 | 3.6 |
| | RATED RUNNING CURRENT (HEATING) | A | 2.4 | 3.1 |
| | LOCKED ROTOR AMP. | A | 12 | 19 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*

| MODEL | INDOOR UNIT | | M5WM 010GR | M5WM 015GR |
|---|---|---|---|---|
| | OUTDOOR UNIT | | M5LC 010CR | M5LC 015CR |
| INDOOR MOTOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 26 | 29 |
| | RATED RUNNING CURRENT | A | 0.11 | 0.13 |
| | MOTOR OUTPUT | W | 9 | 13 |
| | POLES | | 4 | |
| OUTDOOR MOTOR | INSULATION GRADE | | B | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 52 | 59 |
| | RATED RUNNING CURRENT | A | 0.23 | 0.26 |
| | MOTOR OUTPUT | W | 35 | 35 |
| | POLES | | 6 | |
| COMPRESSOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | CAPACITOR | mF | 25 | 35 |
| | RATED INPUT POWER (COOLING) | W | 789 | 1142 |
| | RATED INPUT POWER (HEATING) | W | 669 | 992 |
| | RATED RUNNING CURRENT (COOLING) | A | 4 | 5.23 |
| | RATED RUNNING CURRENT (HEATING) | A | 3 | 4.59 |
| | LOCKED ROTOR AMP. | A | 19 | 24 |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*

| MODEL | INDOOR UNIT | | M5WM 020GR | M5WM 025GR |
|---|---|---|---|---|
| | OUTDOOR UNIT | | M5LC 020CR | M5LC 025CR |
| INDOOR MOTOR | INSULATION GRADE | | B | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 47 | 66 |
| | RATED RUNNING CURRENT | A | 0.22 | 0.29 |
| | MOTOR OUTPUT | W | 20 | 25 |
| | POLES | | 4 | |
| OUTDOOR MOTOR | INSULATION GRADE | | B | |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 | |
| | RATED INPUT POWER | W | 120 | 132 |
| | RATED RUNNING CURRENT | A | 0.53 | 0.58 |
| | MOTOR OUTPUT | W | 64 | 75 |
| | POLES | | 6 | |
| COMPRESSOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 220 - 240 / 1 / 50 / <380 - 415 / 3 / 50> | |
| | CAPACITOR | mF | 45 / - | 50 / - |
| | RATED INPUT POWER (COOLING) | W | 1463 / <1496> | 1662 / <1997> |
| | RATED INPUT POWER (HEATING) | W | 1379 / <1463> | 1672 / <1908> |
| | RATED RUNNING CURRENT (COOLING) | A | 6.4 / <3.0> | 7.5 / <3.9> |
| | RATED RUNNING CURRENT (HEATING) | A | 6.1 / <2.9> | 7.5 <3.7> |
| | LOCKED ROTOR AMP. | A | 27 / <19> | 26 / <26> |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*

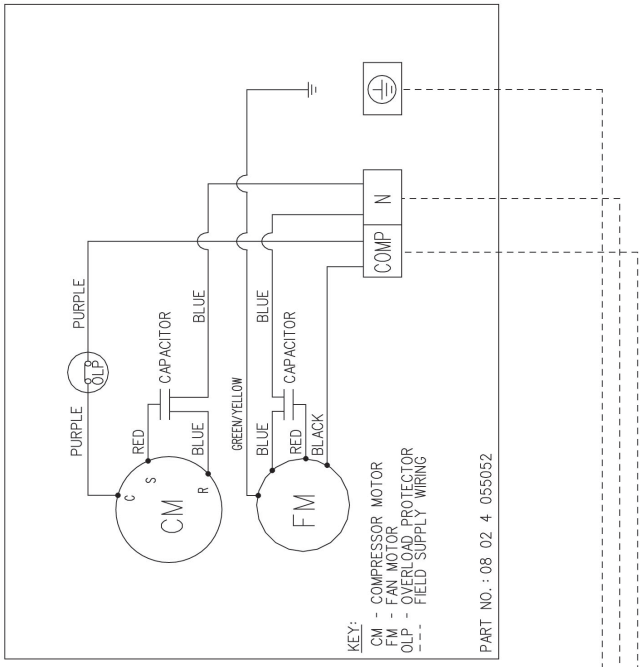
| MODEL | INDOOR UNIT | | M5WM 030FR |
|---|---|---|---|
| | OUTDOOR UNIT | | M5LC 028CR |
| INDOOR MOTOR | INSULATION GRADE | | B |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 |
| | RATED INPUT POWER | W | 71 |
| | RATED RUNNING CURRENT | A | 0.30 |
| | MOTOR OUTPUT | W | IP24 |
| | POLES | | 4 |
| OUTDOOR MOTOR | INSULATION GRADE | | B |
| | POWER SOURCE | V/Ph/Hz | 220-240/1/50 |
| | RATED INPUT POWER | W | 142 |
| | RATED RUNNING CURRENT | A | 0.62 |
| | MOTOR OUTPUT | W | 75 |
| | POLES | | 6 |
| COMPRESSOR | INSULATION GRADE | | E |
| | POWER SOURCE | V/Ph/Hz | 220 - 240 / 1 / 50 / <380 - 415 / 3 / 50> |
| | CAPACITOR | mF | 45 / - |
| | RATED INPUT POWER (COOLING) | W | 2360 / <2423> |
| | RATED INPUT POWER (HEATING) | W | 2242 / 2086> |
| | RATED RUNNING CURRENT (COOLING) | A | 11.27 / 4.29> |
| | RATED RUNNING CURRENT (HEATING) | A | 10.7 / <3.86> |
| | LOCKED ROTOR AMP. | A | 63 / <26> |

*1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.*
*2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.*

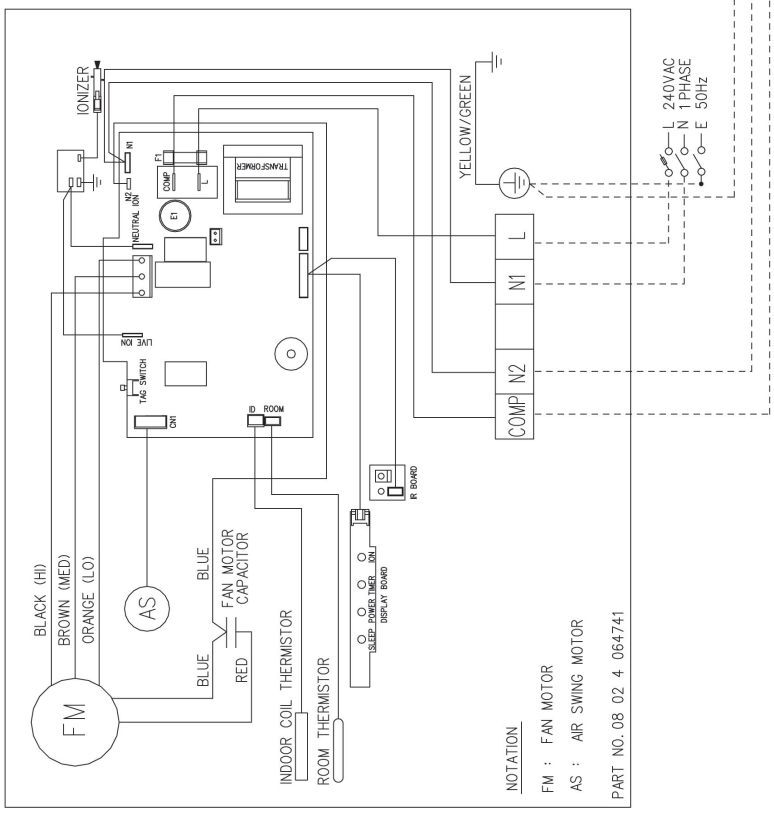
# Wiring Diagrams

## COOLING ONLY MODELS

### OUTDOOR UNIT
### MODEL : MLC 009C / 010C , M5LC 007C / 010C / 015C

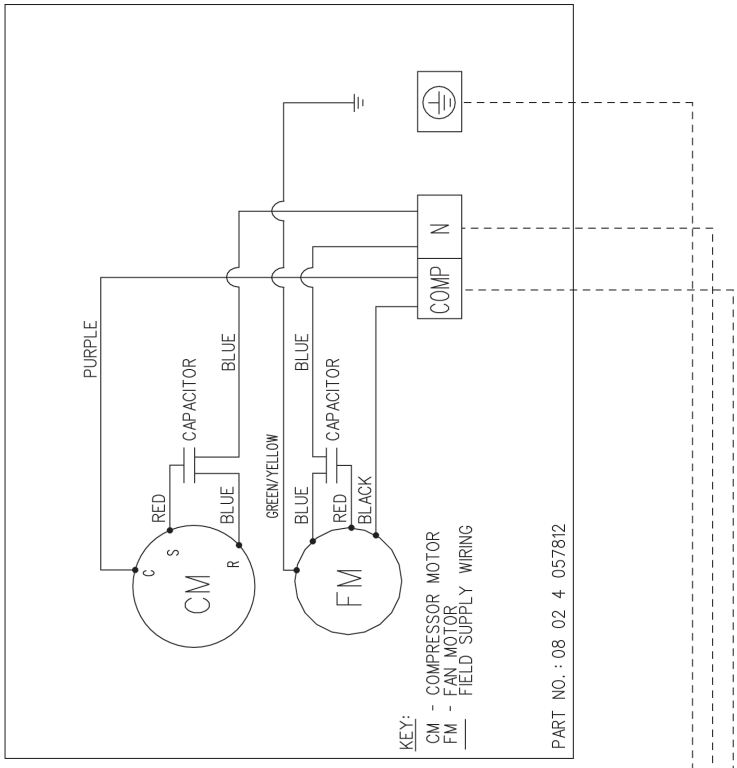



### INDOOR UNIT
### MODEL : MWM 009G / 010G , M5WM 007G / 009G / 010G / 015G (WITH IONIZER)

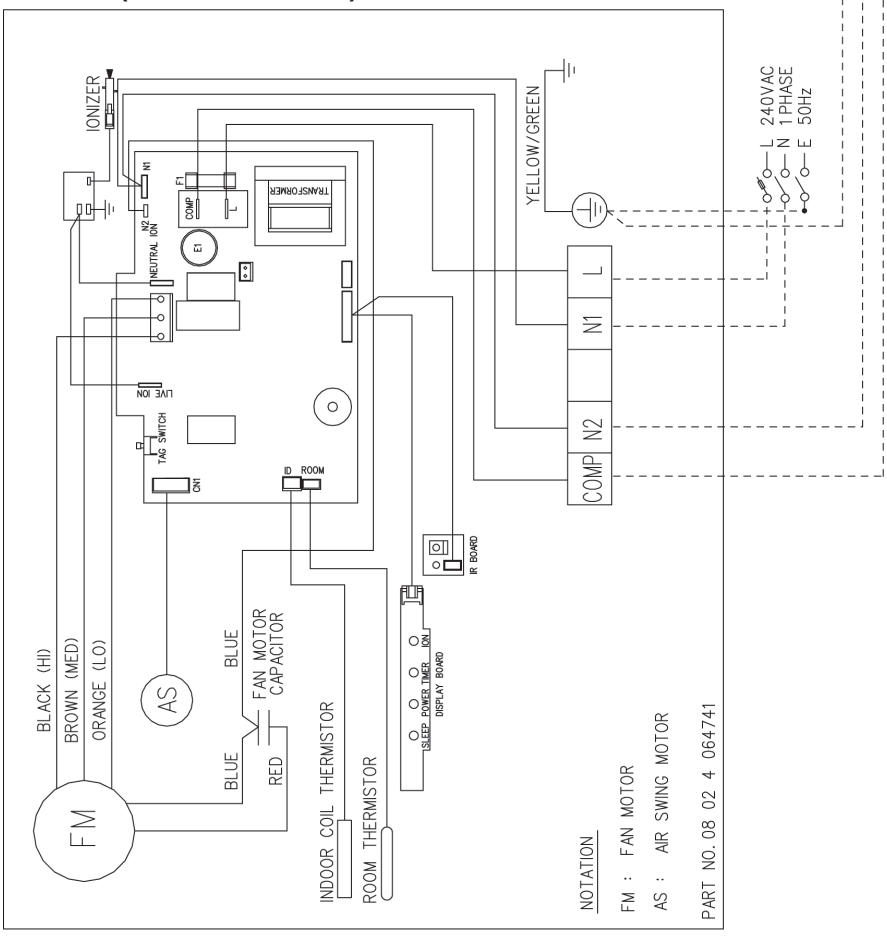


## COOLING ONLY MODELS

### OUTDOOR UNIT
### MODEL : MLC 015C

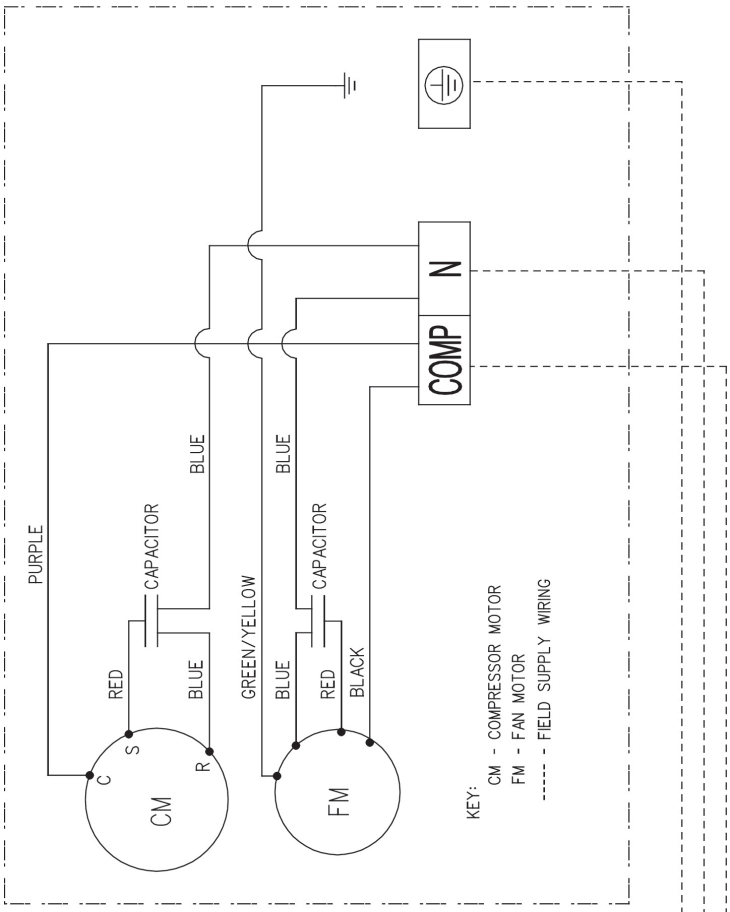



### INDOOR UNIT
### MODEL : MWM 015G (WITH IONIZER)

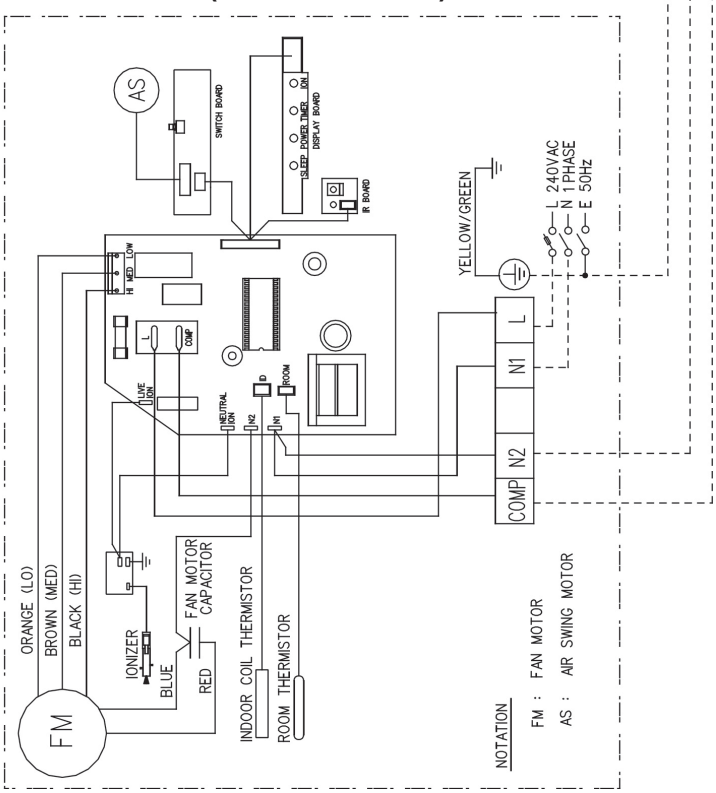


## COOLING ONLY MODELS

## OUTDOOR UNIT
## MODEL : MLC / M5LC 020C / 025C

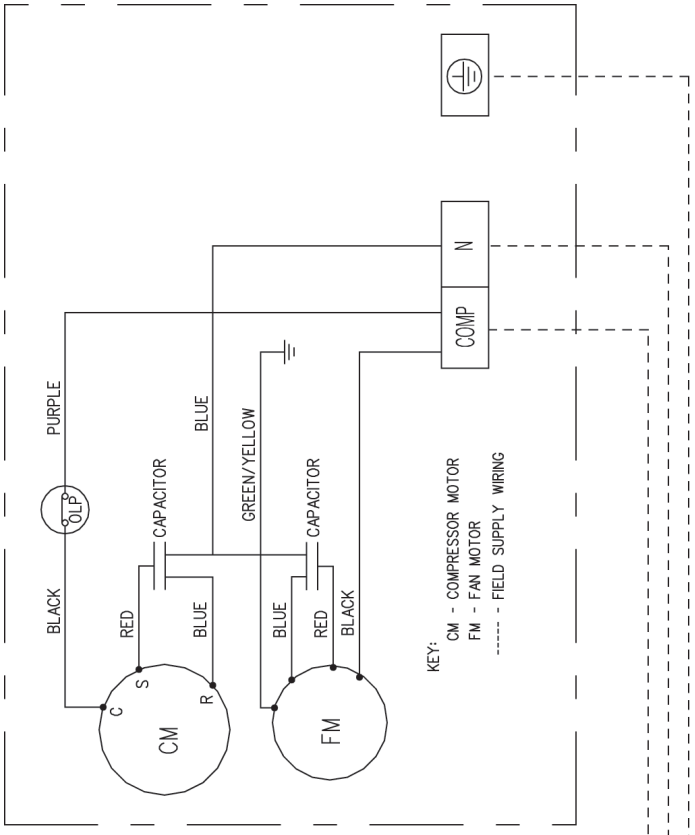



## INDOOR UNIT
## MODEL : MWM / M5WM 020G / 025G (WITH IONIZER)

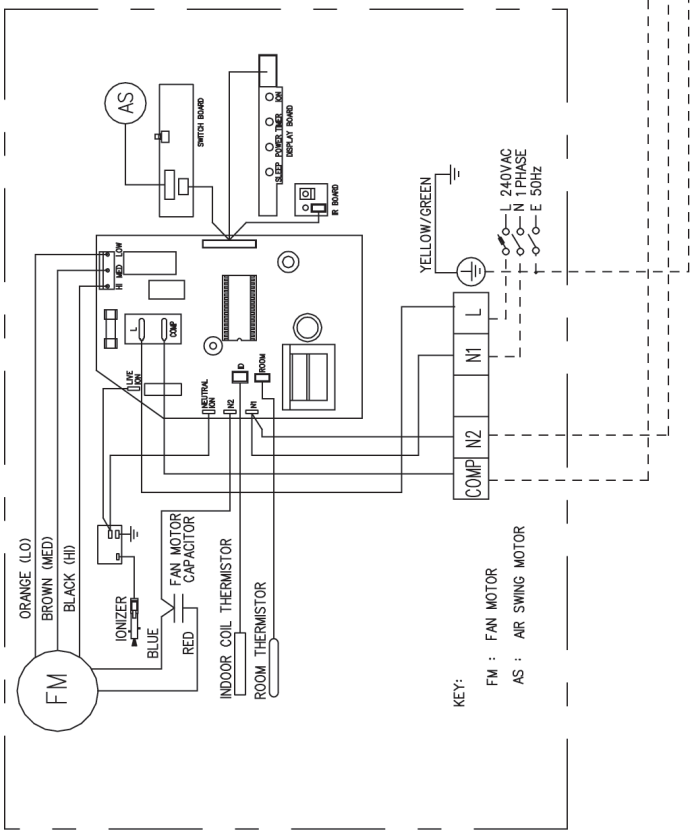


## COOLING ONLY MODELS

### OUTDOOR UNIT
### MODEL : MLC 018C

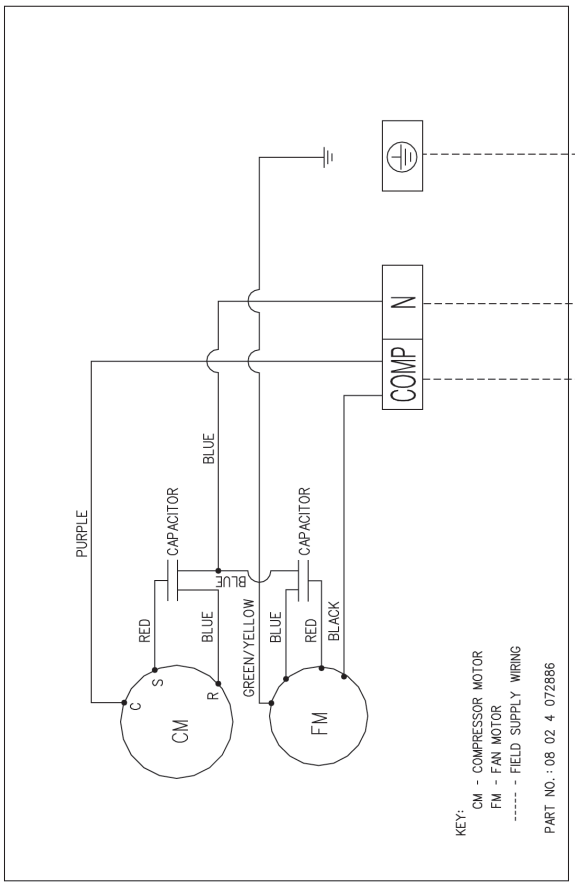



### INDOOR UNIT
### MODEL : MWM 020G (WITH IONIZER)

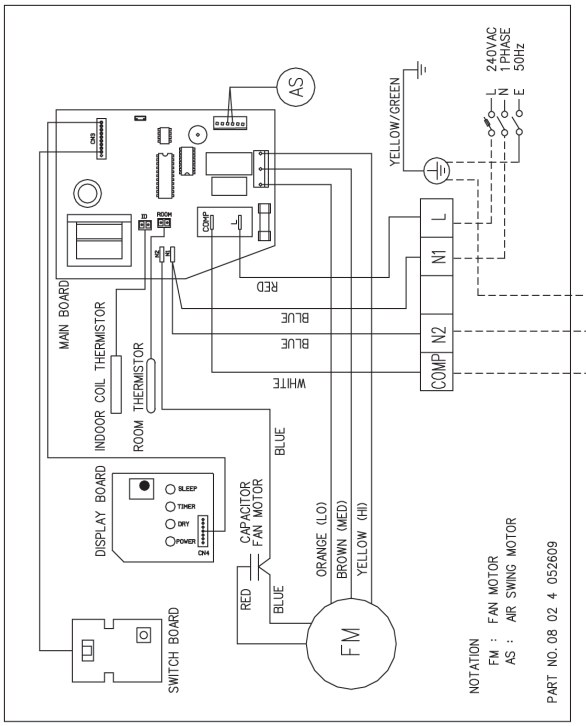


## COOLING ONLY MODELS

## OUTDOOR UNIT
## MODEL : MLC 028C, M5LC 028C

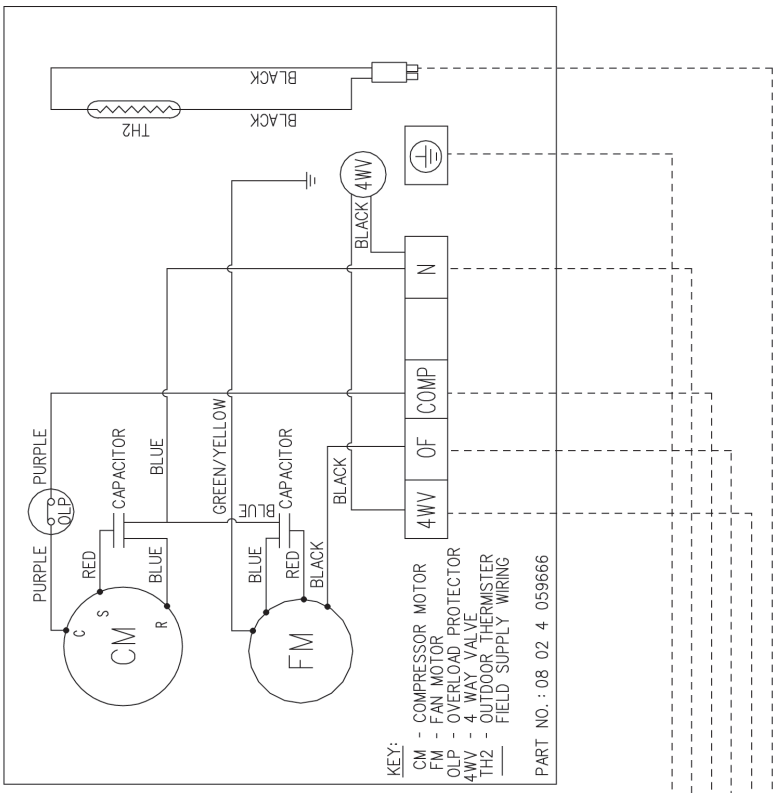



## INDOOR UNIT
## MODEL : MWM 030F, M5WM 031F

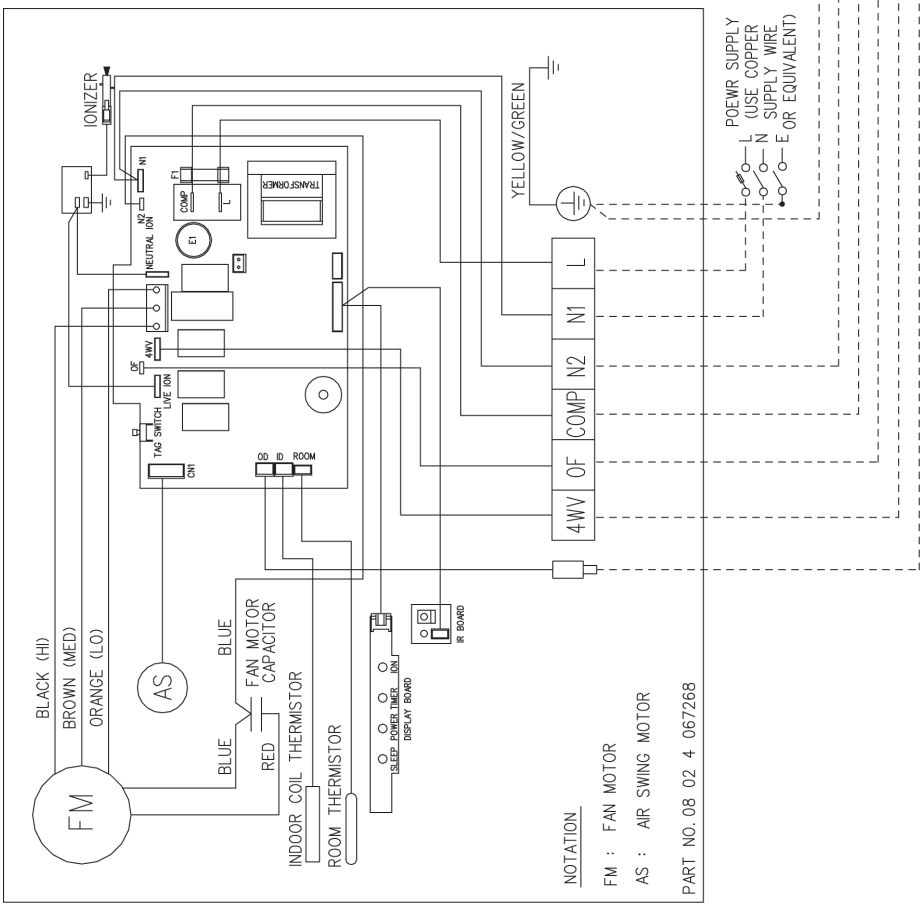


## HEATPUMP MODELS

### OUTDOOR UNIT
### MODEL : MLC 009CR / 010CR , M5LC 007CR / 010CR / 015CR

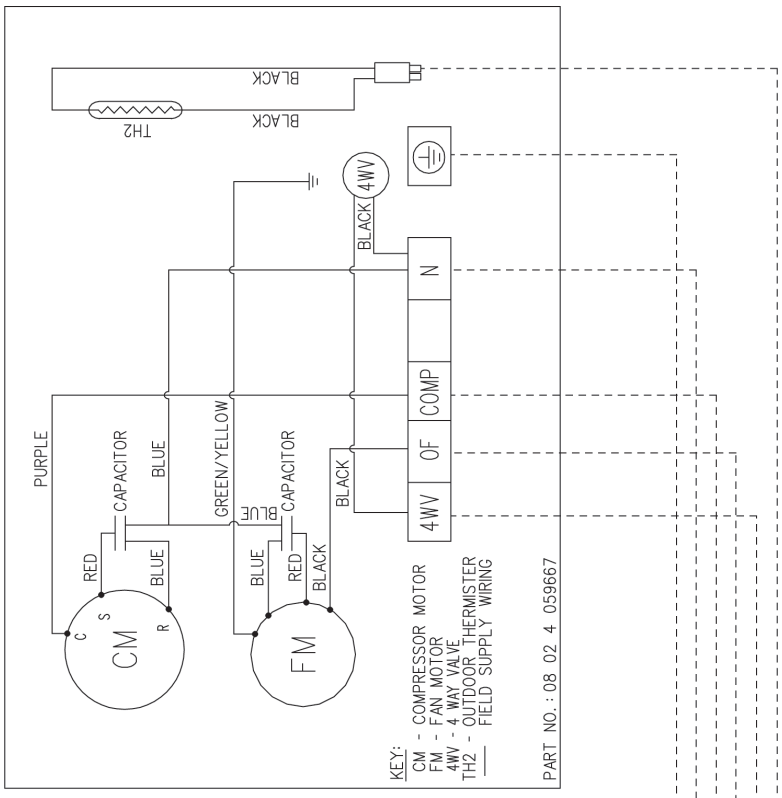



### INDOOR UNIT
### MODEL : MWM 009GR / 010GR , M5WM 007GR / 010GR / 015GR (WITH IONIZER)

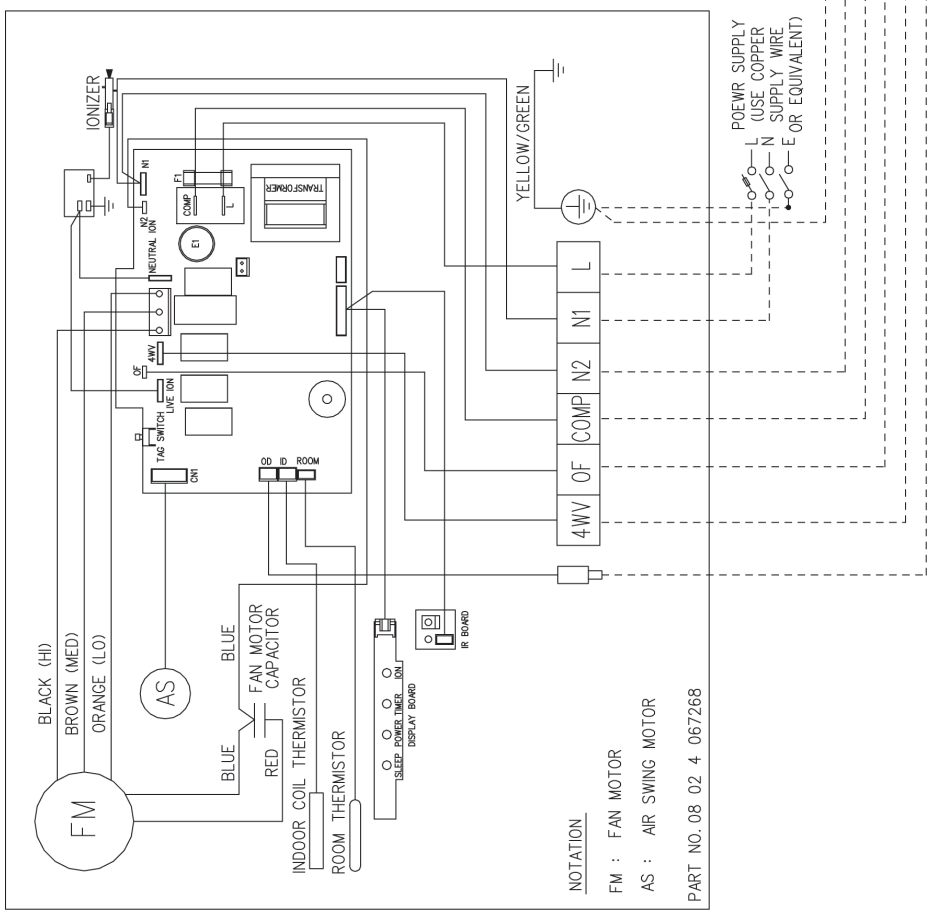


## HEATPUMP MODELS

## OUTDOOR UNIT
## MODEL : MLC 015CR

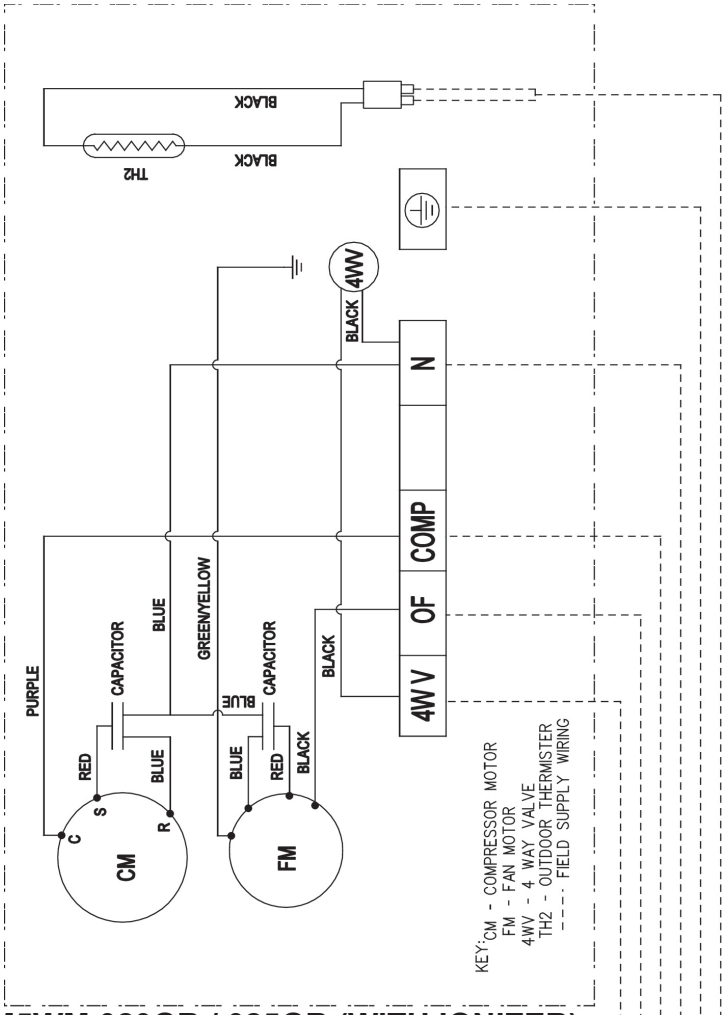



## INDOOR UNIT
## MODEL : MWM 015GR (WITH IONIZER)

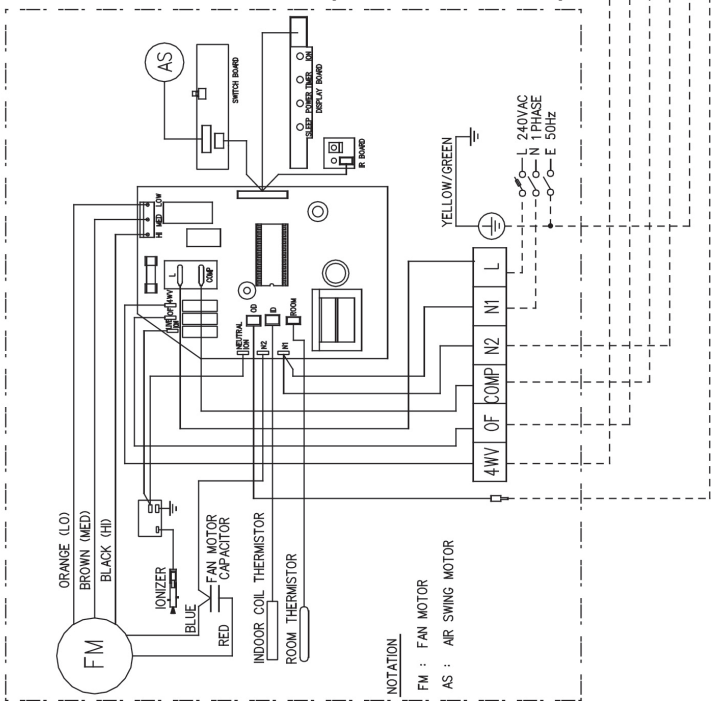


## HEATPUMP MODELS

## OUTDOOR UNIT
## MODEL : MLC / M5LC 020CR / 025CR

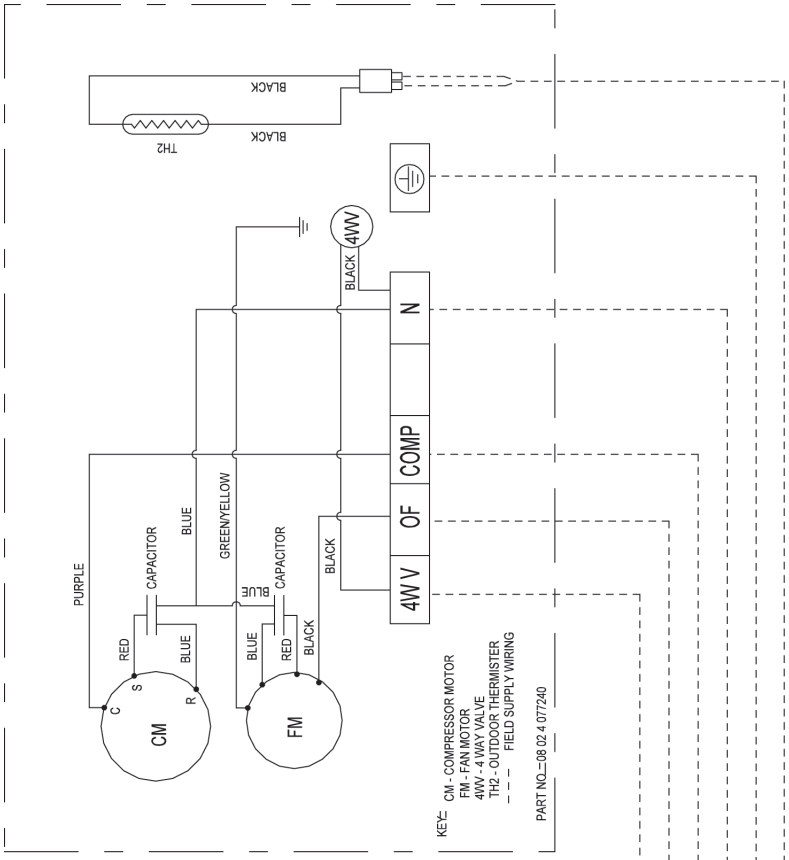



## INDOOR UNIT
## MODEL : MWM / M5WM 020GR / 025GR (WITH IONIZER)

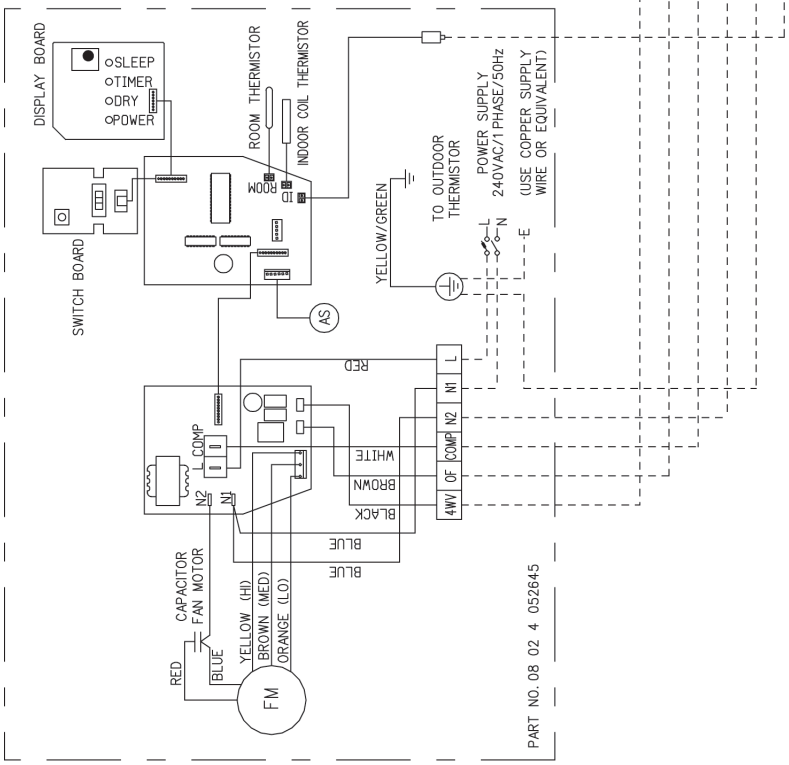


## HEATPUMP MODELS

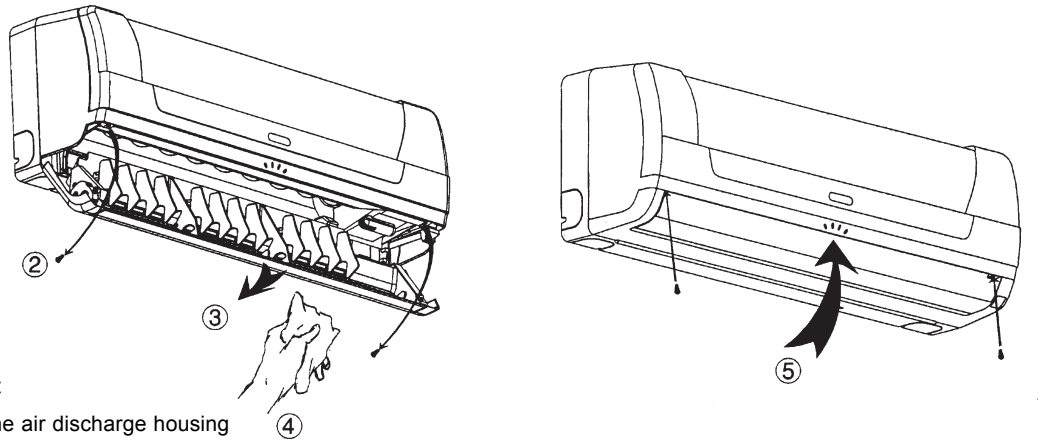
## OUTDOOR UNIT
## MODEL : MLC 028CR, M5LC 028CR




## INDOOR UNIT
## MODEL : MWM 030FR, M5WM 030FR



# Servicing And Maintenance




① Off the unit
② Unscrew the air discharge housing
③ Flip open the air discharge housing
④ Clean the blower
⑤ Close the air discharge housing and tighten it with screw

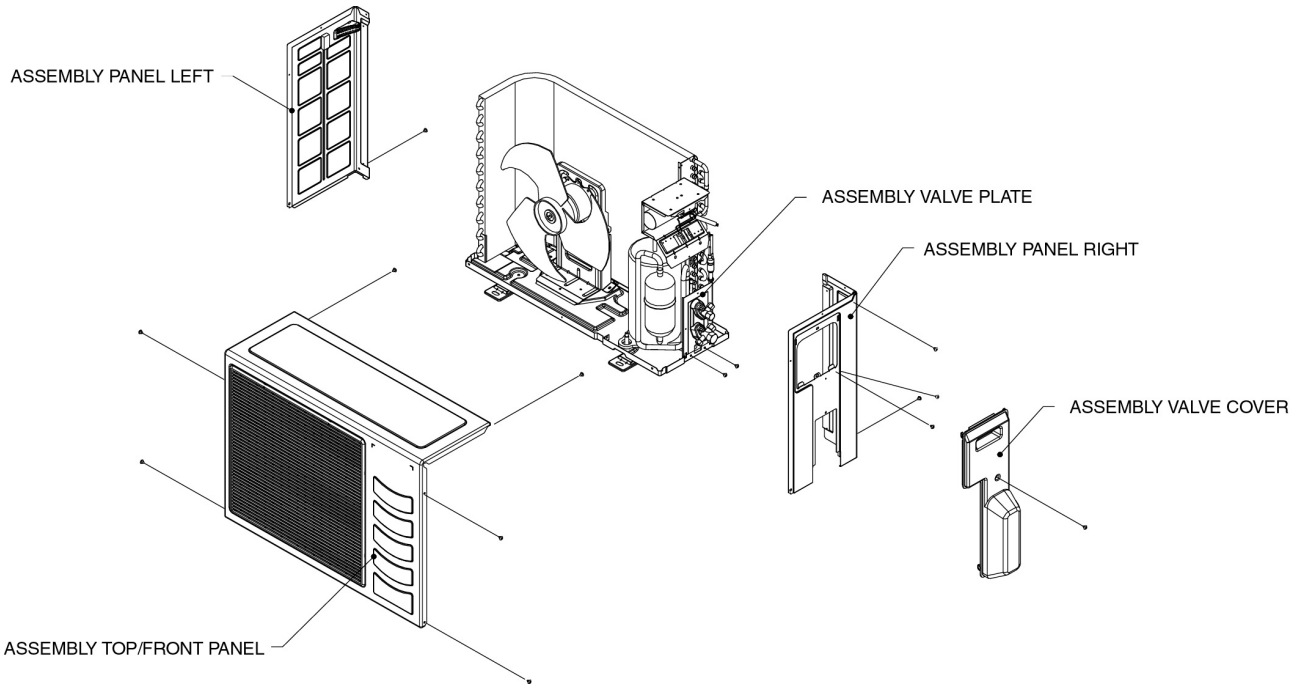
The unit is designed to give a long life operation with minimum maintenance required. However, it should be regularly checked and the following items should be given due attention.

| Components | Maintenance Procedure | Recommended Schedule |
|---|---|---|
| Indoor Air Filter | 1 . Remove any dust adhering on the filter by using a vacuum cleaner or wash in lukewarm water (below 40°C/104°F) with a neutral cleaning detergent.<br>2. Rinse the filter well and dry before placing it back onto the unit.<br>3. Do not use gasoline, volatile substances or chemicals to clean the filter. | At least once every 2 weeks. More frequently if necessary. |
| Indoor Unit | 1. Clean any dirt or dust on the grille or panel by wiping it with a soft cloth soaked in lukewarm water (below 40°C/104°F) and a neutral detergent solution.<br>2. Do not use gasoline, volatile substances or chemicals to clean the indoor unit. | At least once every 2 weeks. More frequently if necessary |
| Condensate Drain Pan and Pipe | 1. Check and clean. | Every 3 months. |
| Indoor Fan | 1. Check for unusual noise. | As necessary. |
| Indoor/Outdoor Coil | 1. Check and remove dirt which are clogged between fins.<br>2. Check and remove obstacles which hinder air flow in and out of indoor/outdoor unit. | Every month.<br>Every month. |
| Electrical | 1. Check voltage, current and wiring.<br>2. Check faulty contacts caused by loose connections, foreign matters, etc. | Every 2 months.<br>Every 2 months. |
| Compressor | 1. No maintenance needed if refrigerant circuit remains sealed. However, check for refrigerant leak at joints and fittings. | Every 6 months. |
| Compressor Lubrication | 1. Oil is factory charged. Not necessary to add oil if circuit remains sealed. | No maintenance required. |
| Fan Motors Lubrication | 1. All motors pre-lubricated and sealed at factory. | No maintenance required. |

## PRE START UP MAINTENANCE
**(AFTER EXTENDED SHUTDOWN)**

- Inspect thoroughly and clean indoor and outdoor units.
- Clean or replace air filters.
- Clean condensate drain line.
- Clean clogged indoor and outdoor coils.
- Check fan imbalance before operation.
- Tighten all wiring connections and panels.
- Check for refrigerant leakage.

The design of the MLC outdoor series allows servicing to be carried out readily and easily. The removal of the top/front and back panel make almost every part accessible.




Under normal circumstances, these outdoor units only require a check and cleaning of air intake coil surface once quarterly. However, if a unit is installed in areas subjected to much oil mist and dust, the coils must be regularly cleaned by qualified Air Conditioner Service Technicians to ensure sufficient heat exchange and proper operation. Otherwise, the systems life span may be shortened.

**CAUTION!**

Do not charge OXYGEN, ACETYLENE OR OTHER FLAMMABLE and poisonous gases into the unit when performing a leakage test or an airtight test. These gases could cause severe explosion and damage if exposed to high temperature and pressure.
It is recommended that only nitrogen or refrigerant be charged when performing the leakage or airtight test.

# Troubleshooting

When a malfunction of the air conditioner unit is detected, immediately switch off the main power supply before proceeding with the following troubleshooting procedures.
The following are common fault conditions and simple troubleshooting tips. If any other fault conditions which are not listed occur, contact your nearest local dealer. DO NOT attempt to troubleshoot the unit by yourself.

| No | Fault conditions | Possible causes / corrective actions |
|---|---|---|
| 1 | The air conditioner unit will not resume after power failure. | • The auto restart function is not functioning. Please turn on the unit with the wireless / wired controller. |
| 2 | The compressor does not operate 3 minutes after the air conditioner unit is started. | • Protection against frequent starting.<br>• Wait for 3 or 4 minutes for the compressor to start operating by it self. |
| 3 | The airflow is too slow or room cannot be cooled sufficiently. | • The air filter is dirty.<br>• The doors and windows are opened.<br>• The air suction and discharge of both indoor and outdoor units are clogged or blocked.<br>• The regulated temperature or temperature setting is not low enough. |
| 4 | Discharge airflow has bad odor. | • Cigarettes, smoke particles, perfume and others, which might have adhered onto the coil, may cause odor.<br>• Contact your nearest dealer. |
| 5 | Condensation on the front air grille of the indoor unit. | • This is caused by air humidity after an extended period of operation.<br>• The set temperature is too low. Increase the temperature setting and operate the unit at high fan speed. |
| 6 | Water flowing out from the air conditioner. | • Switch off the unit and contact your nearest dealer. This might be due to tilted installation. |
| 7 | Hissing airflow sound from the air conditioner unit during operation. | • Liquid refrigerant flowing into the evaporator coil. |
| 8 | The wireless controller display is dim. | • The batteries are discharged.<br>• The batteries are not correctly inserted.<br>• The assembly is not good. |
| 9 | Compressor operates continuously. | • Dirty air filter. Clean the air filter.<br>• Temperature setting too low (cooling). Use higher temperature setting.<br>• Temperature setting too high (heating), Use lower temperature setting. |
| 10 | No cool air comes out during cooling cycle, or no hot air comes out during heating cycle. | • Temperature setting too high (cooling). Use lower temperature setting.<br>• Temperature setting too low (heating). Use higher temperature setting. |
| 11 | On heating cycle, warm air does not come out. | • Unit is in defrost mode. Heating operation will resume after defrost cycle ends. |

## Diagnostic Guidelines

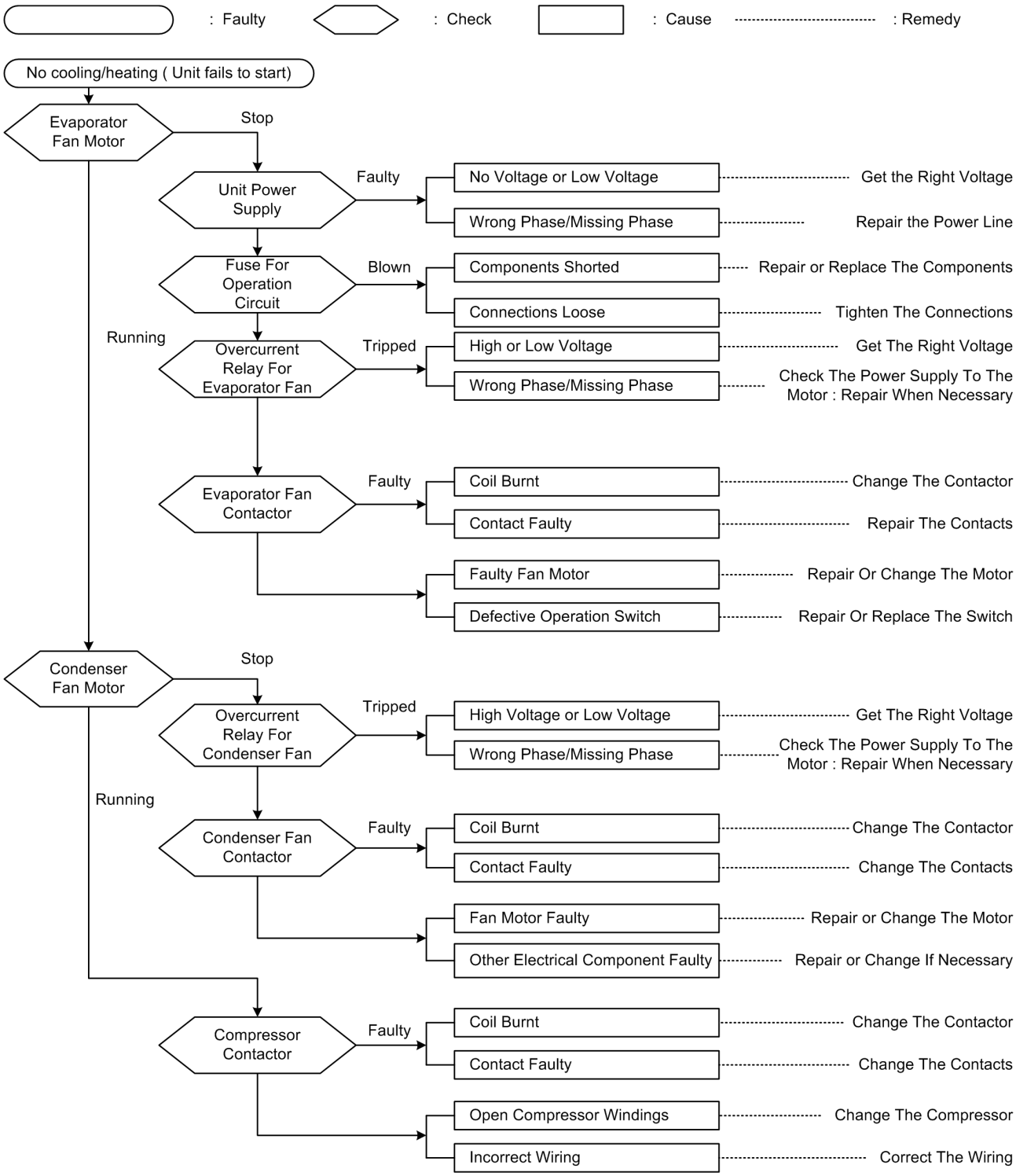
**By means of pressure reading:**

| Data / Circuit | Pressure | | | | | Probable cause |
|---|---|---|---|---|---|---|
| | Too low | A little low | Normal | A little high | Too high | |
| **High side**<br>**Low side** | | | | | ●<br>● | 1. Overcharged with refrigerant.<br>2. Non-condensable gases in refrigerant circuit (e.g. air)<br>3. Obstructed air-intake / discharge.<br>4. Hot air short circuiting in outdoor unit. |
| **High side**<br>**Low side** | ● | | | | ● | 1. Poor compression / no compression (compressor defective)<br>2. Reversing valve leaking. |
| **High side**<br>**Low side** | ● | ● | | | | 1. Undercharged with refrigerant.<br>2. Refrigerant leakage.<br>3. Air filter clogged / dirty (indoor unit).<br>4. Indoor fan locked / seized.<br>5. Defective defrost control, outdoor coil freeze up (heating).<br>6. Outdoor fan locked / seized (heating). |
| **High side**<br>**Low side** | | | | ● | ● | 1. Outdoor fan blocked (cooling).<br>2. Outdoor coil dirty (cooling).<br>3. Indoor fan locked / seized (heating).<br>4. Indoor air filter clogged / dirty (heating).<br>5. Non-condensable gases in refrigerant circuit (e.g. air) |
| **High side**<br>**Low side** | | | | ● | ● | 1. Air intake temperature of indoor unit too high. |

**By means of diagnostic flow chart:**

Generally, there are two kinds of problems, i.e. starting failure and insufficient cooling/heating. “Starting failure” is caused by electrical defect while improper application or defects in refrigerant circuit causes “Insufficient cooling / heating”.

**i) Diagnosis of Electric Circuit**

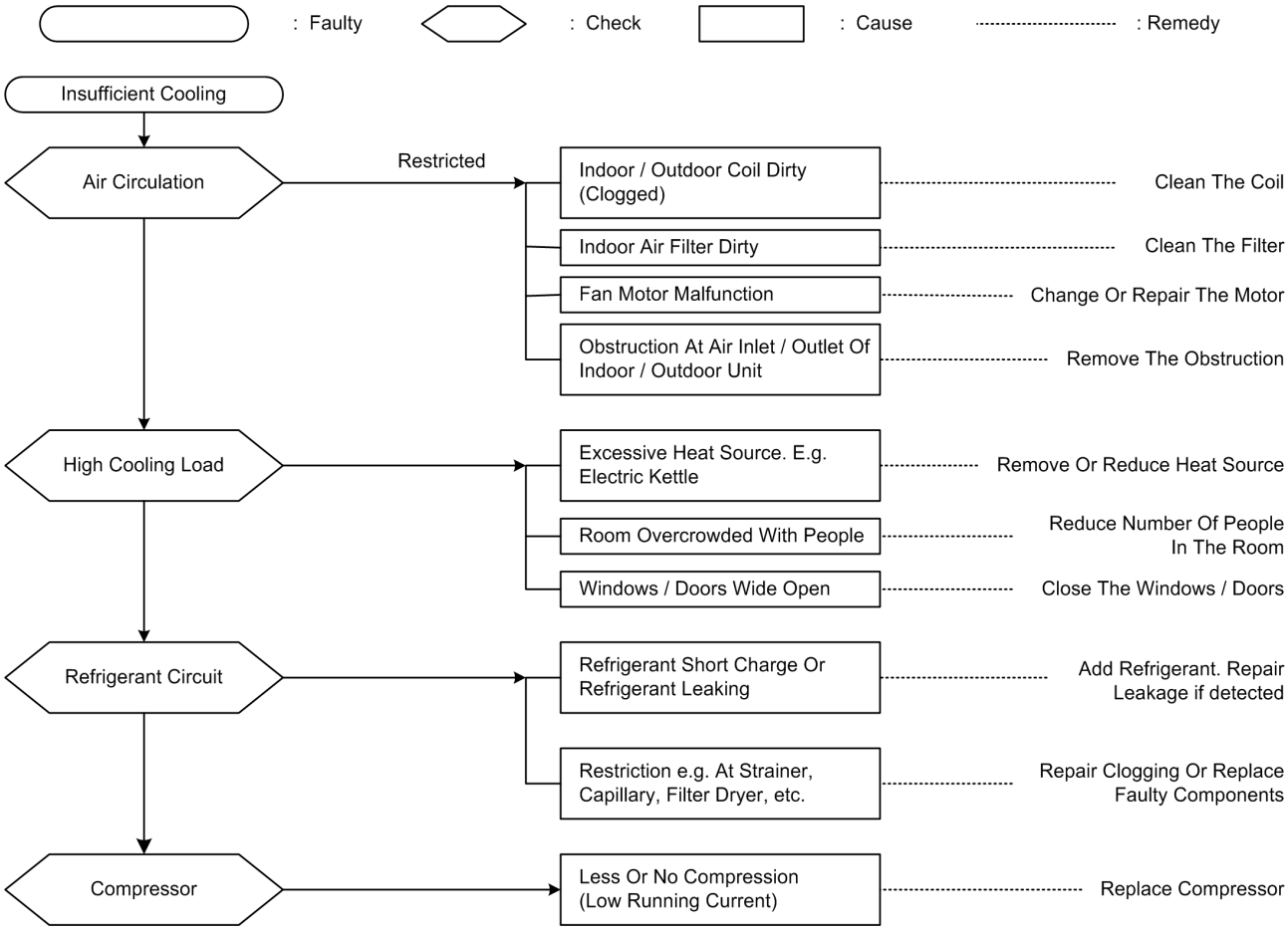



The most common causes of air conditioner failure to “start” are :

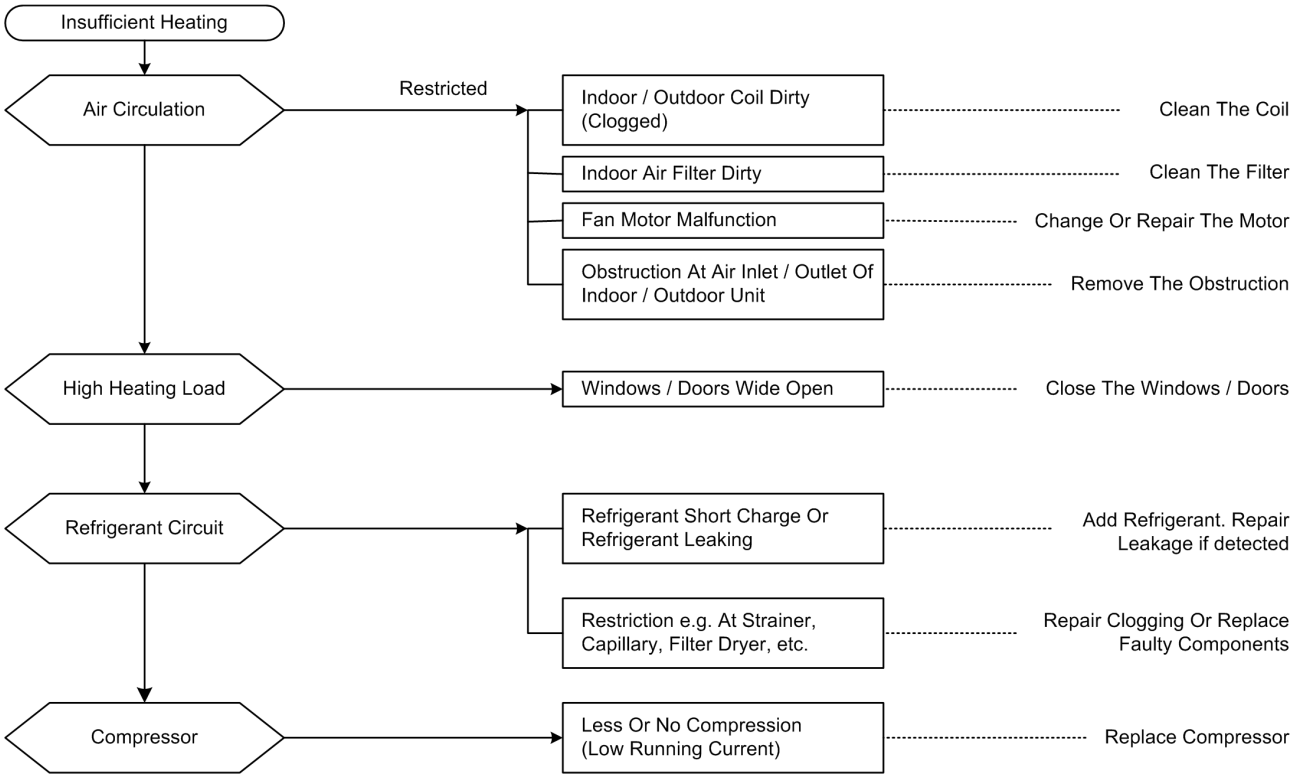
a) Voltage not within ±10% of rated voltage.
b) Power supply interrupted.
c) Improper control settings.
d) Air conditioner is disconnected from main power source.
e) Fuse blown or circuit breaker off.

**ii ) Diagnosis of Refrigerant Circuit / Application**

There might be some causes where the unit starts running but does not perform satisfactorily, i.e. insufficient cooling. Judgement could be made by measuring temperature difference of indoor unit's intake and discharge air as well as running current.


: Faulty
: Check
: Cause
: Remedy
Insufficient Cooling
Air Circulation
Restricted
Indoor / Outdoor Coil Dirty (Clogged)
Clean The Coil
Indoor Air Filter Dirty
Clean The Filter
Fan Motor Malfunction
Change Or Repair The Motor
Obstruction At Air Inlet / Outlet Of Indoor / Outdoor Unit
Remove The Obstruction
High Cooling Load
Excessive Heat Source. E.g. Electric Kettle
Remove Or Reduce Heat Source
Room Overcrowded With People
Reduce Number Of People In The Room
Windows / Doors Wide Open
Close The Windows / Doors
Refrigerant Circuit
Refrigerant Short Charge Or Refrigerant Leaking
Add Refrigerant. Repair Leakage if detected
Restriction e.g. At Strainer, Capillary, Filter Dryer, etc.
Repair Clogging Or Replace Faulty Components
Compressor
Less Or No Compression (Low Running Current)
Replace Compressor

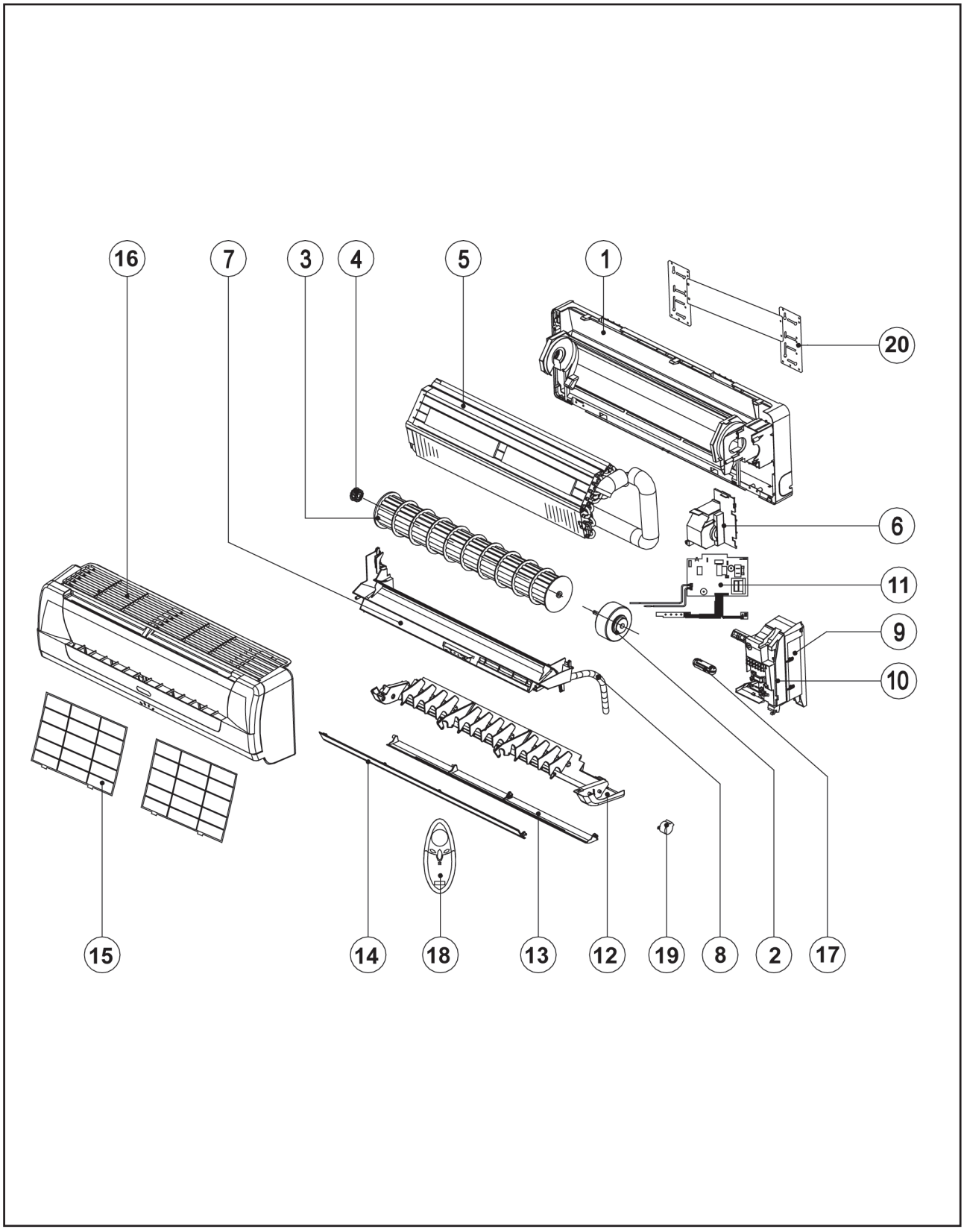
Satisfactory operation with temperature difference of air intake & discharge of indoor unit 8°C to 13°C. *
( * value is for reference only )


Insufficient Heating
Air Circulation
Restricted
Indoor / Outdoor Coil Dirty (Clogged)
Clean The Coil
Indoor Air Filter Dirty
Clean The Filter
Fan Motor Malfunction
Change Or Repair The Motor
Obstruction At Air Inlet / Outlet Of Indoor / Outdoor Unit
Remove The Obstruction
High Heating Load
Windows / Doors Wide Open
Close The Windows / Doors
Refrigerant Circuit
Refrigerant Short Charge Or Refrigerant Leaking
Add Refrigerant. Repair Leakage if detected
Restriction e.g. At Strainer, Capillary, Filter Dryer, etc.
Repair Clogging Or Replace Faulty Components
Compressor
Less Or No Compression (Low Running Current)
Replace Compressor

Satisfactory operation with temperature difference of air intake & discharge of indoor unit 14°C to 20°C. *
( * value is for reference only )

# Exploded View And Parts List

**INDOOR UNIT**
**MODEL:M5WM / MWM 007G / 007GR / 009G / 009GR / 010G / 010GR / 015G / 015GR**



## M5WM / MWM 007G / 009G / 010G / 015G

| No | Descriptions | Part No |
|---|---|---|
| 1 | Assy., Chassis | |
| | M5WM / MWM 007/009G | R50124064147 |
| | M5WM / MWM 010/015G | R50124064151 |
| 2 | Fan, Motor | |
| | M5WM / MWM 007/009G | R03034064425 |
| | M5WM / MWM 010/015G | R03034064426 |
| 3 | Cross Flow Fan | |
| | M5WM / MWM 007/009G | R03029019462 |
| | M5WM / MWM 010/015G | R03029019461 |
| 4 | Fan, Bush | R11014029514 |
| 5 | Assy., Coil | |
| | M5WM / MWM 007/009G | R50024063765 |
| | M5WM / MWM 010/015G | R50024064225 |
| 6 | Piping, Clamp | R12014060544 |
| 7 | Assy., Drain Pan | |
| | M5WM / MWM 007/009G | R50124064148 |
| | M5WM / MWM 010/015G | R50124064152 |
| 8 | Drain Hose | R10024018204 |
| 9 | Assy., Control Box | R50044085731 |
| 10 | Assy., Control Box Cover | R50124064666 |
| 11 | L2 Control Module | |
| | M5WM / MWM 007/009G | R04084064635 |
| | M5WM / MWM 010/015G | R04084064635 |

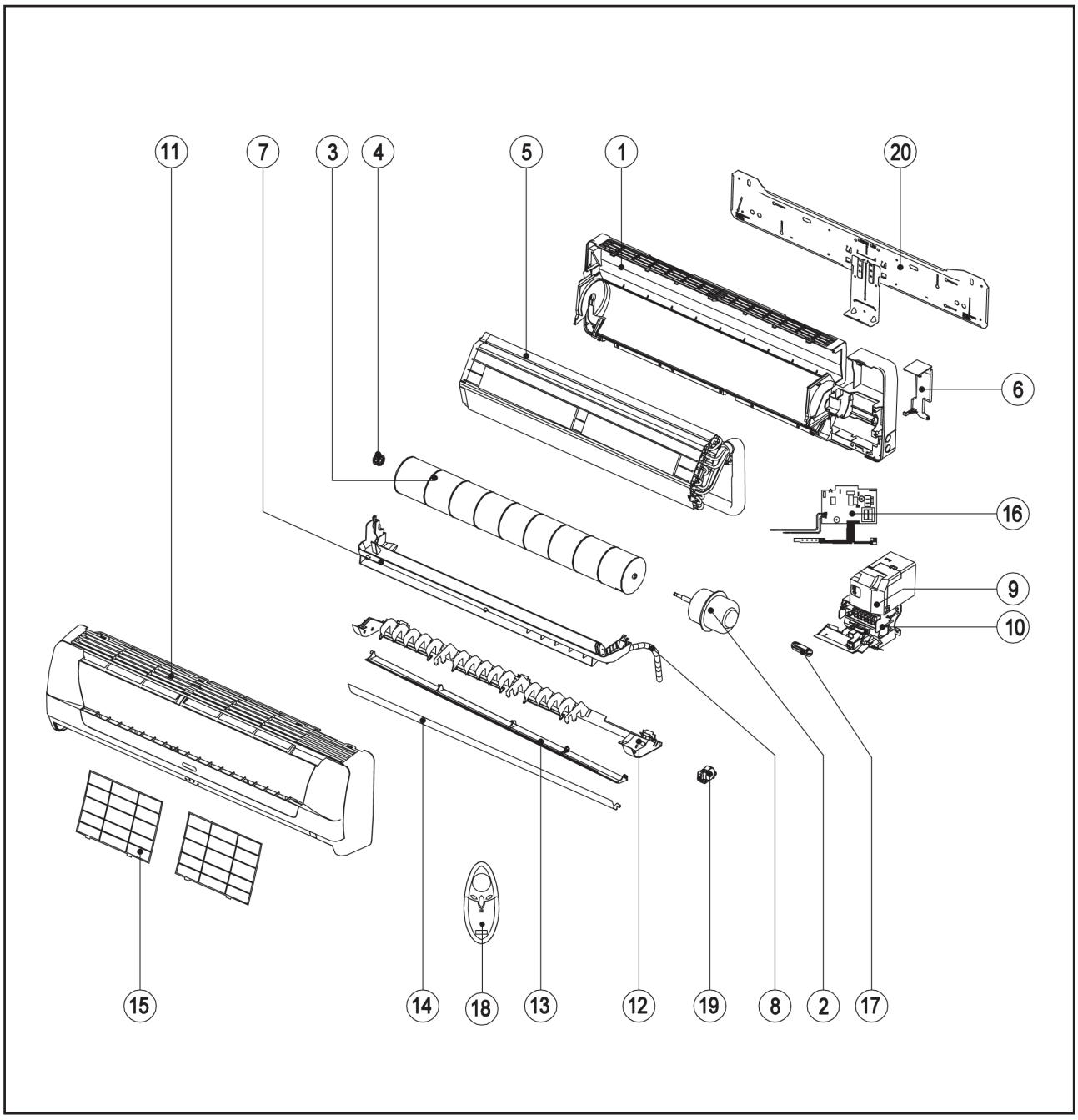
| No | Descriptions | Part No |
|---|---|---|
| 12 | Air Discharge Housing | |
| | M5WM / MWM 007/009G | R50124062325 |
| | M5WM / MWM 010/015G | R50124062326 |
| 13 | Lower Louver | |
| | M5WM / MWM 007/009G | R12014060538 |
| | M5WM / MWM 010/015G | R12014061364 |
| 14 | Upper Louver | |
| | M5WM / MWM 007/009G | R12014060537 |
| | M5WM / MWM 010/015G | R12014061363 |
| 15 | Saranet Air Filter | |
| | M5WM / MWM 007/009G | R12014062320 |
| | M5WM / MWM 010/015G | R12014062321 |
| 16 | Assy., Front Cover | |
| | M5WM / MWM 007/009G | R50124084805 |
| | M5WM / MWM 010/015G | R50124064675 |
| 17 | Assy., Negative Ionizer | R04239019730 |
| 18 | G11 handset | R04084065327 |
| 19 | Air Swing Motor | R03039021375 |
| 20 | Assy, Mounting Plate | |
| | M5WM / MWM 007/009G | R50014061333 |
| | M5WM / MWM 010/015G | R50014062324 |

## M5WM / MWM 007GR / 009GR / 010GR / 015GR

| No | Descriptions | Part No |
|---|---|---|
| 1 | Assy., Chassis | |
| | M5WM / MWM 007/009GR | R50124064147 |
| | M5WM / MWM 010/015GR | R50124064151 |
| 2 | Fan, Motor | |
| | M5WM / MWM 007/009GR | R03034064425 |
| | M5WM / MWM 010/015GR | R03034064426 |
| 3 | Cross Flow Fan | |
| | M5WM / MWM 007/009GR | R03029019462 |
| | M5WM / MWM 010/015GR | R03029019461 |
| 4 | Fan, Bush | R11014029514 |
| 5 | Assy., Coil | |
| | M5WM / MWM 007/009GR | R50024063765 |
| | M5WM / MWM 10GR | R50024064225 |
| | M5WM / MWM 15GR | R50024066054 |
| 6 | Piping, Clamp | R12014060544 |
| 7 | Assy., Drain Pan | |
| | M5WM / MWM 007/009GR | R50124064148 |
| | M5WM / MWM 010/015GR | R50124064152 |
| 8 | Drain Hose | R10024018204 |
| 9 | Assy., Control Box | R50044085737 |
| 10 | Assy., Control Box Cover | R50124074570 |
| 11 | L2 Control Module | R04084067263 |

| No | Descriptions | Part No |
|---|---|---|
| 12 | Air Discharge Housing | |
| | M5WM / MWM 007/009GR | R50124062325 |
| | M5WM / MWM 010/015GR | R50124062326 |
| 13 | Lower Louver | |
| | M5WM / MWM 007/009GR | R12014060538 |
| | M5WM / MWM 010/015GR | R12014061364 |
| 14 | Upper Louver | |
| | M5WM / MWM 007/009GR | R12014060537 |
| | M5WM / MWM 010/015GR | R12014061363 |
| 15 | Saranet Air Filter | |
| | M5WM / MWM 007/009GR | R12014062320 |
| | M5WM / MWM 010/015GR | R12014062321 |
| 16 | Assy., Front Cover | |
| | M5WM / MWM 007/009GR | R50124084806 |
| | M5WM / MWM 010/015GR | R50124064675 |
| 17 | Assy., Negative Ionizer | R04239019730 |
| 18 | G11 handset | R04084067314 |
| 19 | Air Swing Motor | R03039021375 |
| 20 | Assy, Mounting Plate | |
| | M5WM / MWM 007/009GR | R50014061333 |
| | M5WM / MWM 010/015GR | R50014062324 |

**MODEL: M5WM / MWM 020G / 020GR / 025G / 025GR**



## Model : M5WM / MWM 020G / 025G

| No | Descriptions | Part No |
|---|---|---|
| 1 | Assy., Chassis | R50124068170 |
| 2 | Fan, Motor | |
| | MWM 020G | R03034074205 |
| | MWM 025G | R03034074204 |
| 3 | Cross Flow Fan | R03029209158 |
| 4 | Fan, Bush | R11014023775 |
| 5 | Assy., Coil | |
| | MWM 020G | R50024072203 |
| | MWM 025G | R50024072204 |
| | M5WM 020G | R50024074031 |
| | M5WM 025G | R50024074032 |
| 6 | Piping, Clamp | R12014071297 |
| 7 | Assy., Drain Pan | R50124068171 |

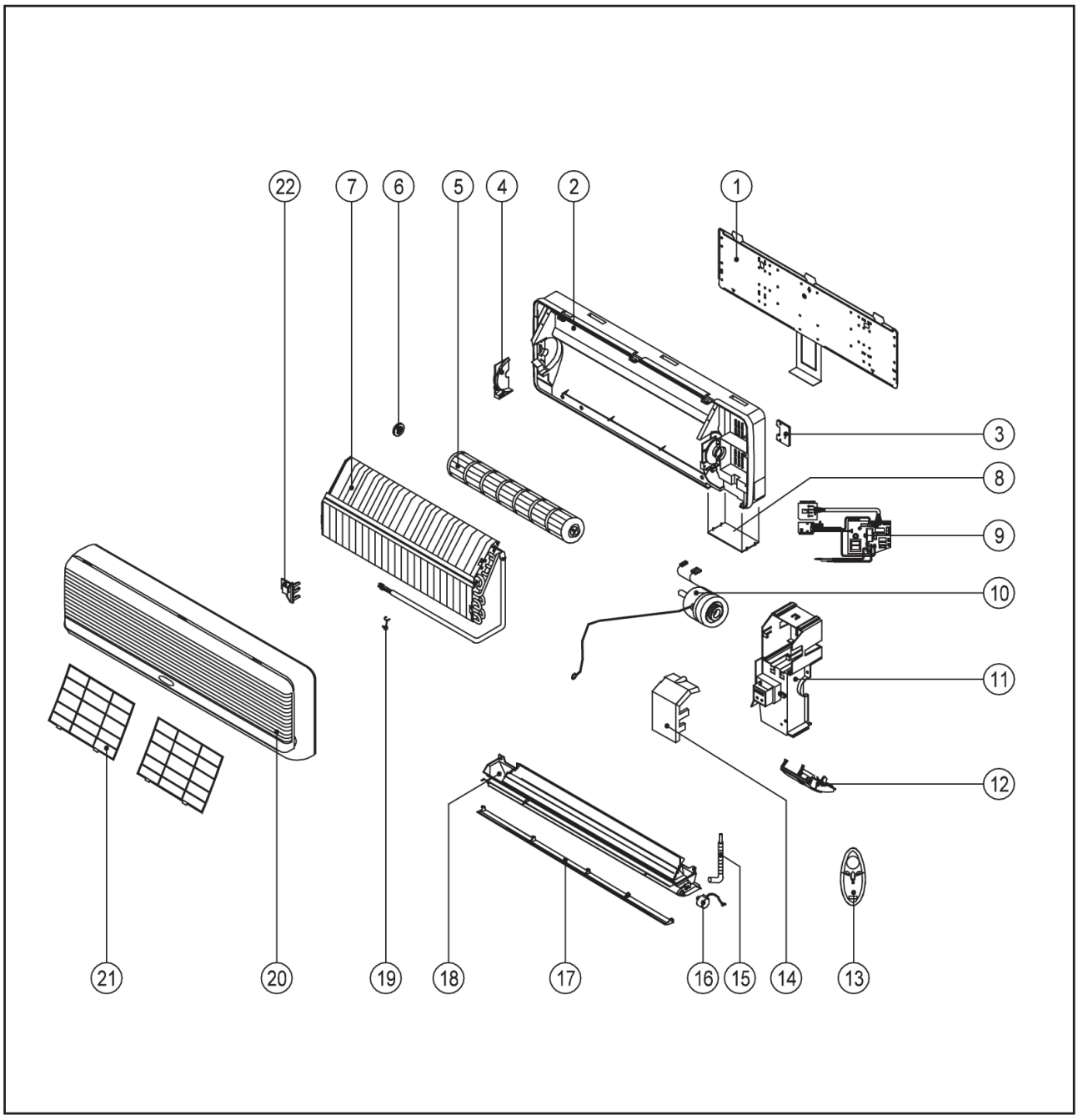
| No | Descriptions | Part No |
|---|---|---|
| 8 | Drain Hose | R10024015319 |
| 9 | Assy., Control Box | R50044071955 |
| 10 | Assy., Control Box Cover | R50124071418 |
| 11 | Assy., Front Cover | R50124071425 |
| 12 | Air Discharge Housing | R50124071426 |
| 13 | Lower Louver | R12014066821 |
| 14 | Upper Louver | R12014066820 |
| 15 | Saranet Air Filter | R12014066832 |
| 16 | L2 Control Module | R04084071971 |
| 17 | Assy., Negative Ionizer | R04239022932 |
| 18 | G11 handset | R04084065327 |
| 19 | Air Swing Motor | R03039022933 |
| 20 | Assy, Mounting Plate | R50014036133 |

## Model : M5WM / MWM 020GR / 025GR

| No | Descriptions | Part No |
|---|---|---|
| 1 | Assy., Chassis | R50124068170 |
| 2 | Fan, Motor | |
| | MWM 020GR | R03034074205 |
| | MWM 025GR | R03034074204 |
| 3 | Cross Flow Fan | R03029209158 |
| 4 | Fan, Bush | R11014023775 |
| 5 | Assy., Coil | |
| | MWM 020GR | R50024072203 |
| | MWM 025GR | R50024072204 |
| | M5WM 020GR | R50024074031 |
| | M5WM 025GR | R50024074032 |
| 6 | Piping, Clamp | R12014071297 |
| 7 | Assy., Drain Pan | R50124068171 |

| No | Descriptions | Part No |
|---|---|---|
| 8 | Drain Hose | R10024015319 |
| 9 | Assy., Control Box | R50044071960 |
| 10 | Assy., Control Box Cover | R50124071419 |
| 11 | Assy., Front Cover | R50124071425 |
| 12 | Air Discharge Housing | R50124071426 |
| 13 | Lower Louver | R12014066821 |
| 14 | Upper Louver | R12014066820 |
| 15 | Saranet Air Filter | R12014066832 |
| 16 | L2 Control Module | R04084071973 |
| 17 | Assy., Negative Ionizer | R04239022932 |
| 18 | G11 handset | R04084067315 |
| 19 | Air Swing Motor | R03039022933 |
| 20 | Assy, Mounting Plate | R50014036133 |

**MODEL: MWM 030F / 030FR, M5WM 031F / 030FR**



## MODEL : M5WM 031F / MWM 030F

| No | Descriptions | Part No |
|---|---|---|
| 1 | ASSY, INSTALLATION BRACKET | R50014050721 |
| 2 | ASSY. CHASSIS | R50124050703 |
| 3 | PIPING CLAMP | R07014024546 |
| 4 | FAN BUSH BRACKET | R12014050709 |
| 5 | CROSS FLOW FAN | R03029013842 |
| 6 | FAN BUSH | R11019013841 |
| 7 | ASSY., INDOOR COIL | |
| | MWM030F | R50024050710 |
| | M5WM031F | R50024084359 |
| 8 | SERVICE PANEL | R12014050685 |
| 9 | CONTROL MODULE | R04084090222 |
| 10 | FAN MOTOR | R03034052105 |

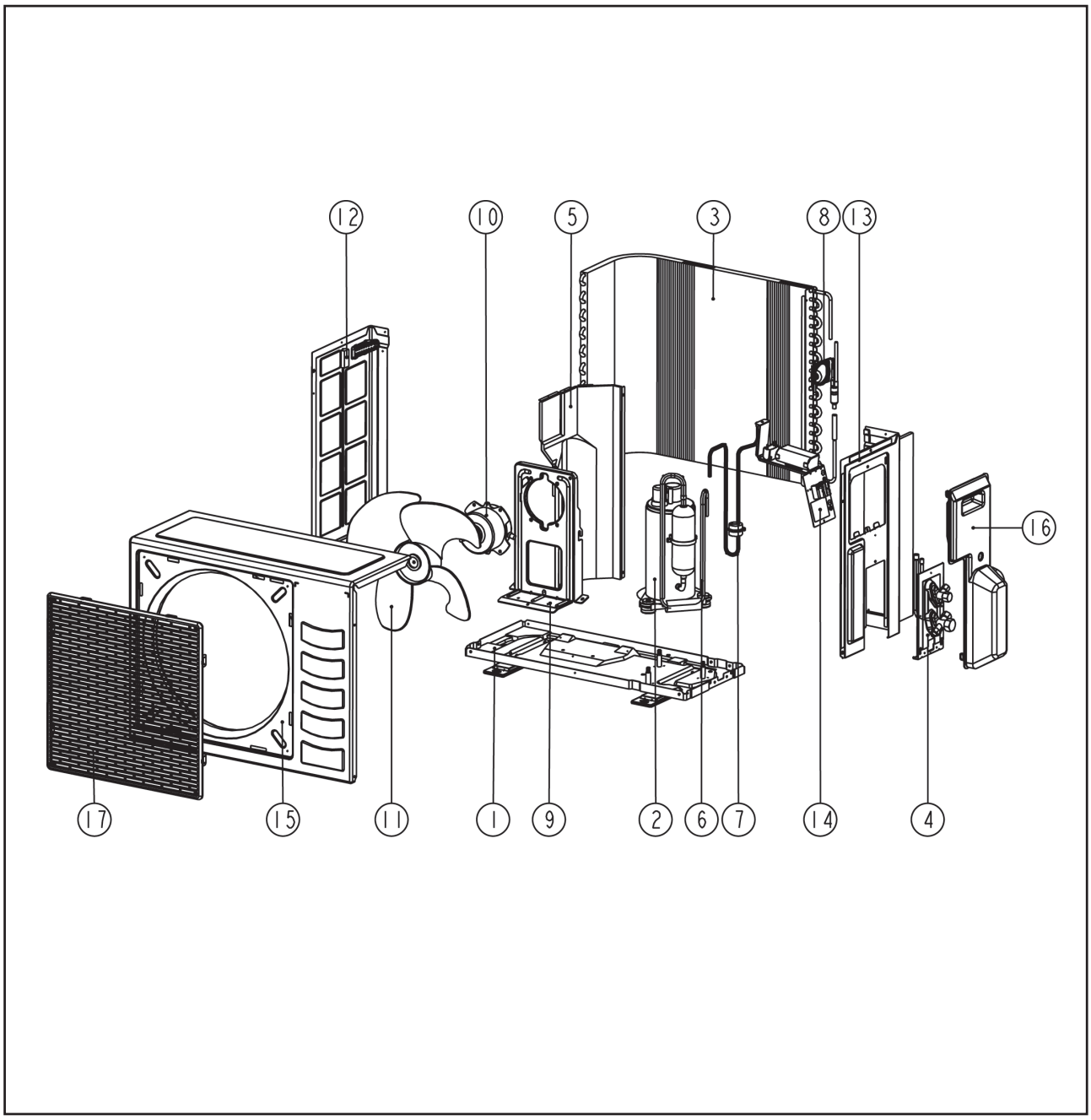
| No | Descriptions | Part No |
|---|---|---|
| 11 | ASSY, CONTROL BOX | R50044090264 |
| 12 | LED LIGHT BRACKET | R12014050679 |
| 13 | G11 HANDSET | R04084065335 |
| 14 | CONTROL BOX COVER | R12014050681 |
| 15 | ASSY. DRAIN HOSE | R10024015319 |
| 16 | AIR SWING MOTOR | R03039007088 |
| 17 | AIR LOUVER | R12014050717 |
| 18 | ASSY. AIR DISCHARGE HOUSING | R50124050712 |
| 19 | COIL SENSOR CLIP | R07054021183 |
| 20 | ASSY. FRONT COVER | R50124050723 |
| 21 | SARANET FILTER | R12014050726 |
| 22 | THERMISTOR HOLDER | R12014016707 |

## MODEL : M5WM 030FR / MWM 030FR

| No | Descriptions | Part No |
|---|---|---|
| 1 | ASSY, INSTALLATION BRACKET | R50014050721 |
| 2 | ASSY. CHASSIS | R50124050703 |
| 3 | PIPING CLAMP | R07014024546 |
| 4 | FAN BUSH BRACKET | R12014050709 |
| 5 | CROSS FLOW FAN | R03029013842 |
| 6 | FAN BUSH | R11019013841 |
| 7 | ASSY., INDOOR COIL | |
| | MWM030FR | R50024050710 |
| | M5WM030FR | R50024084359 |
| 8 | SERVICE PANEL | R12014050685 |
| 9 | U1.5 CONTROL MODULE | R04084090162 |
| 10 | FAN MOTOR | R03034052105 |

| No | Descriptions | Part No |
|---|---|---|
| 11 | ASSY, CONTROL BOX | R50044090014 |
| 12 | LED LIGHT BRACKET | R12014050679 |
| 13 | G11 HANDSET | R04084073476 |
| 14 | CONTROL BOX COVER | R12014050681 |
| 15 | ASSY. DRAIN HOSE | R10024015319 |
| 16 | AIR SWING MOTOR | R03039007088 |
| 17 | AIR LOUVER | R12014050717 |
| 18 | ASSY. AIR DISCHARGE HOUSING | R50124050712 |
| 19 | COIL SENSOR CLIP | R07054021183 |
| 20 | ASSY. FRONT COVER | R50124050723 |
| 21 | SARANET FILTER | R12014050726 |
| 22 | THERMISTOR HOLDER | R12014016707 |

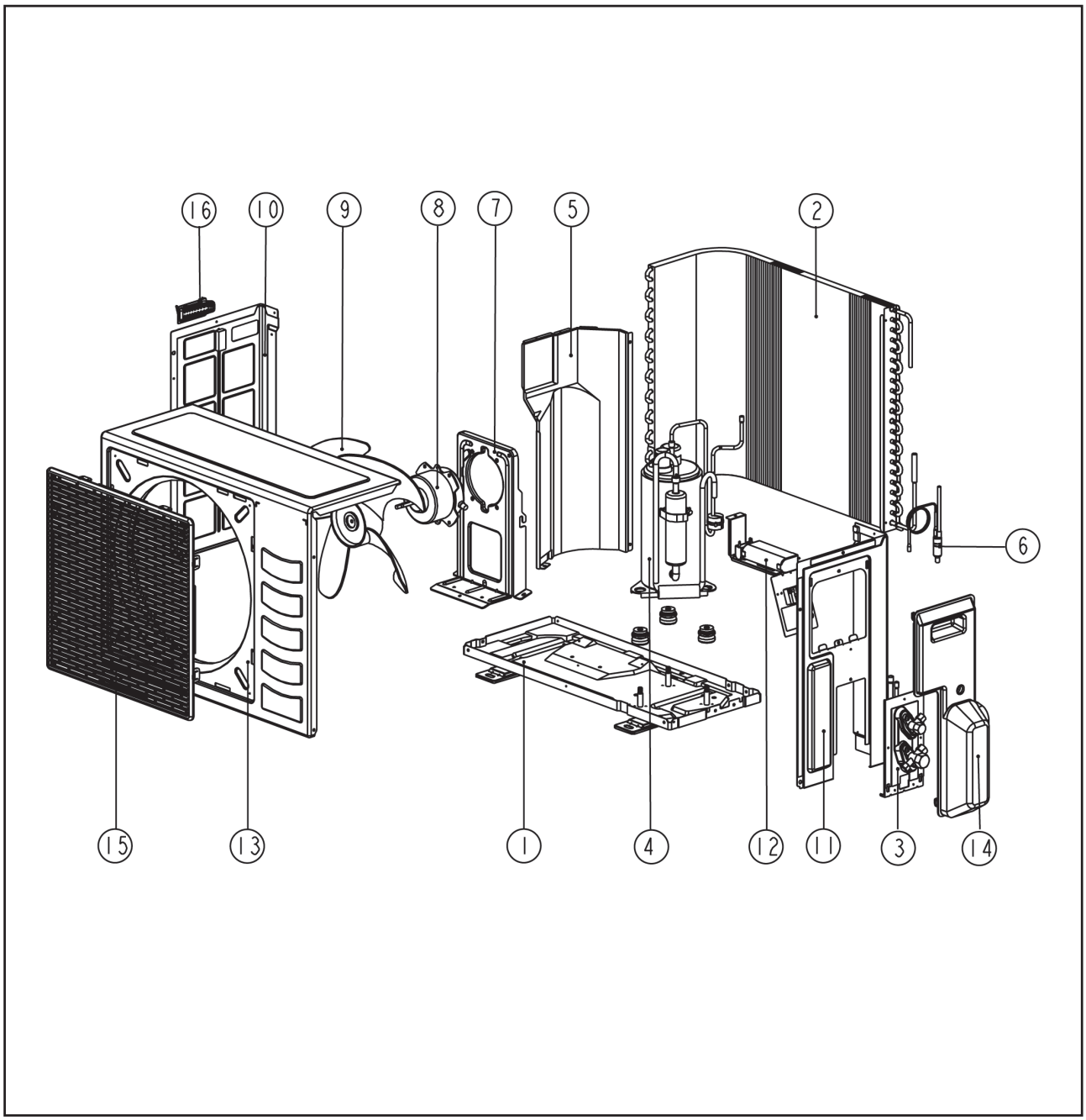
## Model : MLC 007C




| No | Descriptions | Part No |
|---|---|---|
| 1 | ASSY,PAN BASE SL07C | R50014057372 |
| 2 | COMPRESSOR, 2RS122D5BC02 Matsushita | R04019029041 |
| 3 | ASSY., OUTDOOR COIL - (5)SL09C 7MM RL | R50024087206 |
| 4 | VALVE,BRACKET | R01014051164 |
| 5 | ASSY, PARTITION SL07C/09C(R) | R50064084355 |
| 6 | ASSY SUCTION TUBE | R50024091725 |
| 7 | ASSY DISCHARGE TUBE | R50024091724 |
| 8 | ASSY., CAP. TUBE - SL07C | R50024091764 |
| 9 | BRACKET,FAN MOTOR | R01014052516 |
| 10 | MOTOR, MSL 09C-502-WL WELLING | R03039028206 |
| 11 | FAN PROPELLER SL09C Ø355.0 x 115mm | R03019020744 |

| No | Descriptions | Part No |
|---|---|---|
| 12 | PANEL,LEFT | R01014052510 |
| 13 | PANEL,RIGHT (SL07/09C/CR)(639.4FL) | R01014084434 |
| 14 | ASSY,CONTROL PANEL SL07C | R50044092695 |
| 15 | PANEL,TOP/FRONT | R01014052512 |
| 16 | ASSY,VALVE COVER | R50124055172 |
| 17 | ASSY,FRONT GRILLE | R50124056905 |
| **Parts not showed in diagram** | | |
| | Fan CAPACITOR 2.OMFD | R04029007797 |
| | CAPACITOR, CMPSR 2uF/450 (TAB187)Shizuki | R04029026755 |
| | CAPACITOR, CMPSR 20uF/450VAC Shizuki | R04029026772 |
| | Assy, 2 way flare valve 1/4" | R50054054950 |
| | Assy, 3 way flare valve 3/8" | R50054054951 |

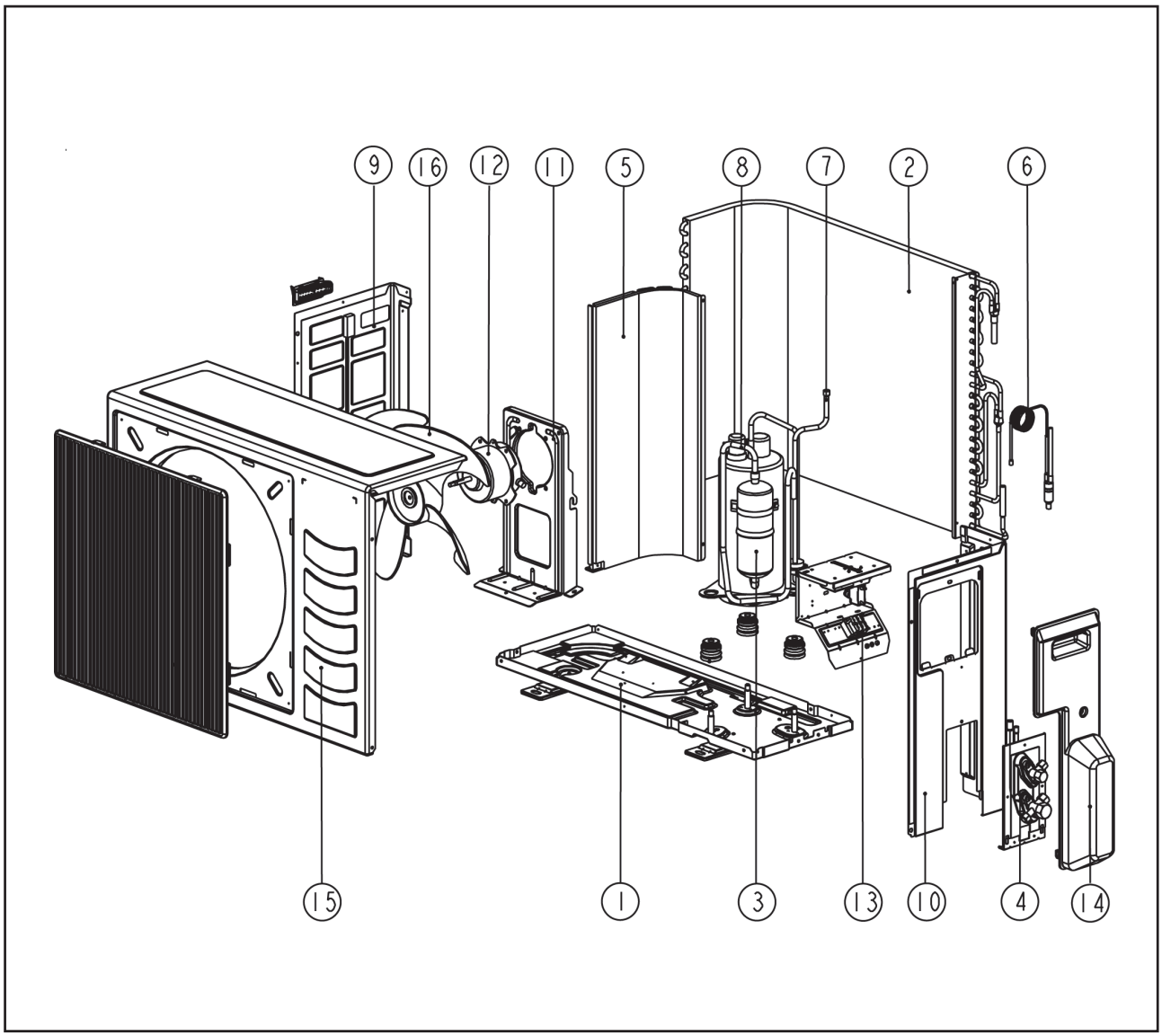
## Model : MLC 009C




| No | Descriptions | Part No |
|---|---|---|
| 1 | ASSY,PAN BASE SL07C | R50014057372 |
| 2 | ASSY., OUTDOOR COIL - (5)SL09C 7MM RL | R50024087206 |
| 3 | VALVE BRACKET | R01014051164 |
| 4 | COMPRESSOR, 2PS156D3CB02 MATSUSHITA | R04019027628 |
| 5 | ASSY, PARTITION SL07C/09C(R) | R50064084355 |
| | ASSY,CAPILLARY TUBE (SL09C-7.0MM COIL) | R50024079624 |
| 6 | ASSY,CAPILLARY TUBE (SL09C-2PS156D COMP) | R50024087403 |
| 7 | BRACKET,FAN MOTOR | R01014052516 |
| 8 | MOTOR, MSL 09C-502-WL WELLING | R03039028206 |
| 9 | FAN PROPELLER SL09C | R03019020744 |

| No | Descriptions | Part No |
|---|---|---|
| 10 | PANEL,LEFT | R01014052510 |
| 11 | PANEL,RIGHT (SL07/09C/CR)(639.4FL) | R01014084434 |
| 12 | ASSY,CONTROL PANEL SL09C | R50044089886 |
| 13 | PANEL,TOP/FRONT | R01014052512 |
| 14 | ASSY,VALVE COVER | R50124055172 |
| 15 | ASSY,FRONT GRILLE | R50124056905 |
| 16 | PLASTIC,HANDLE SL07C/09C/10C/15C/CR | R12014057948 |
| **Parts not showed in diagram** | | |
| | Comp. CAPACITOR, F 30.0μF 440VAC | R04024012931 |
| | Fan CAPACITOR 2.OMFD | R04029007797 |
| | Assy, 2 way flare valve 1/4" | R50054054950 |
| | Assy, 3 way flare valve 3/8" | R50054054951 |

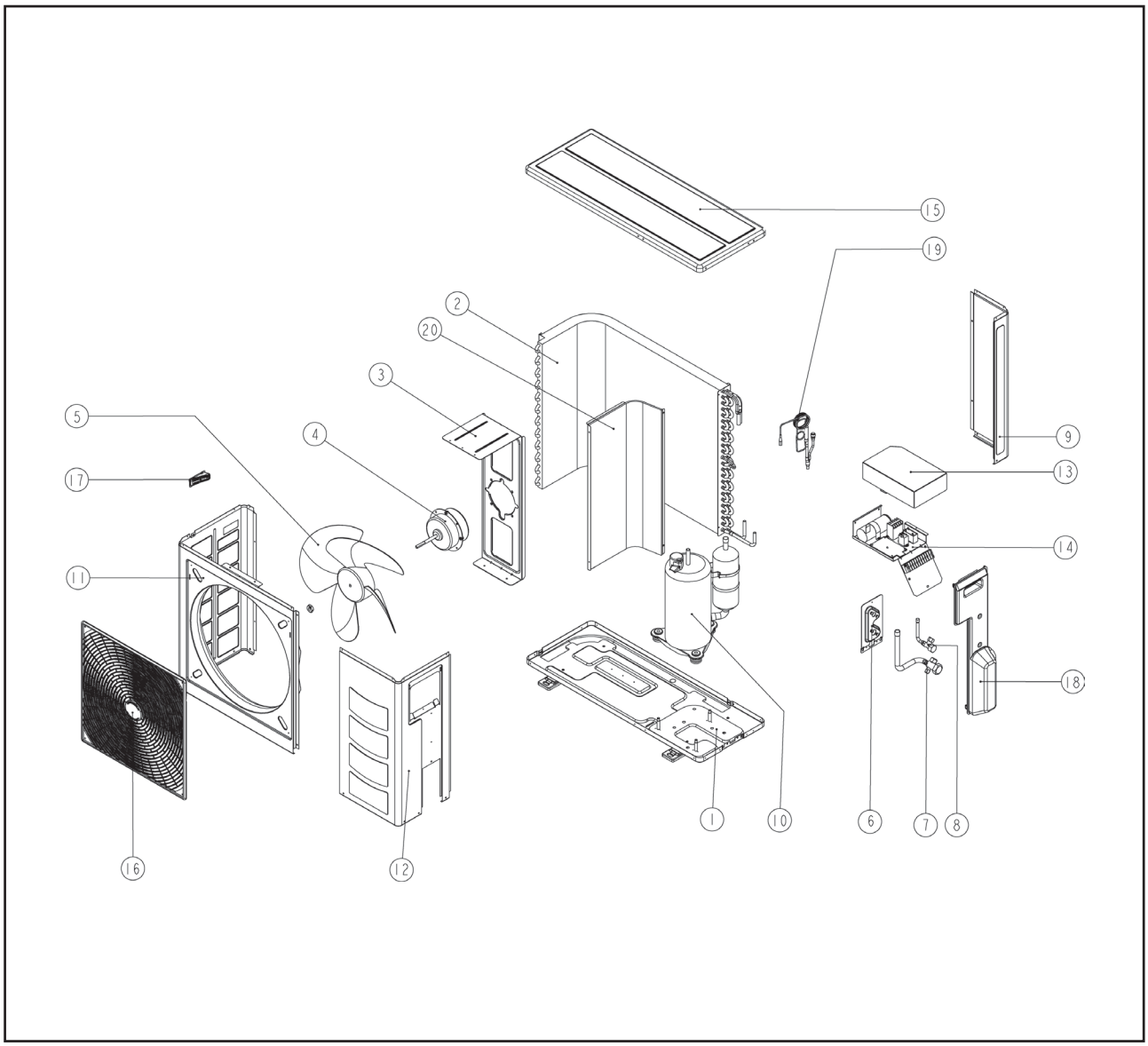
## Model : MLC 010 / 015C




| No | Descriptions | Part No |
|---|---|---|
| 1 | ASSY,PAN BASE SL10/15C | R50014051158 |
| 2 | ASSY,OUTDOOR COIL SL15C/CR | R50024087838 |
| 3 | COMPRESSOR, 2PS206D2AF02 MATSUSHITA | R04019027709 |
| 4 | VALVE BRACKET | R01014051164 |
| | Assy, 2 way flare valve 1/4" | R50054054950 |
| 5 | PARTITION | R01014051165 |
| 6 | ASSY,CAPILLARY TUBE (SL15C) 2PS206D2AF02 | R50024087757 |
| 7 | ASSY.,TUBE DISCHARGE SL15C(2PS206D2AF02) | R50024087928 |
| 8 | ASSY,SUCTION TUBE (SL15C) (2PS206D2AF02) | R50024087761 |
| 9 | PANEL,LEFT | R01014051166 |
| 10 | PANEL,RIGHT | R01014051167 |
| 11 | BRACKET,FAN MOTOR | R01014051162 |
| 12 | MOTOR, MSL15C-501 24W B.OCEAN | R03039015323 |
| 13 | ASSY,CONTROL PANEL SL09C/10C/5SL15C | R50044086056 |

| No | Descriptions | Part No |
|---|---|---|
| 14 | ASSY,VALVE COVER | R50124051173 |
| 15 | PANEL,TOP/FRONT | R01014051171 |
| | ASSY,FRONT GRILLE (SL10C/15C) | R50124056700 |
| 16 | FAN PROPELLER, DIA401.0 OZ42000 SHUNDE | R03019015339 |
| **Parts not showed in diagram** | | |
| | CAPACITOR, CMPSR 35uF/450VAC Shizuki | R04029026776 |
| | CAPACITOR, CMPSR 30uF/450VAC Shizuki | R04029026775 |
| | CAPACITOR, CMPSR 2uF/450 (TAB187)Shizuki | R04029026755 |
| | ASSY, O2 THERAPHY | R50044070393 |
| | ASSY, PARTITION O2 | R50064070384 |
| | AIR FILTER, OXYGEN ENRICHMENT MEMBRANE | R03089020671 |
| | PUMP, O2 ENRICHMT VACUM DAL-12S-04 ULVAC | R04139020673 |
| | CAPACITOR, E 0.9µF 480V +10-5% 50/60Hz | R04029020674 |

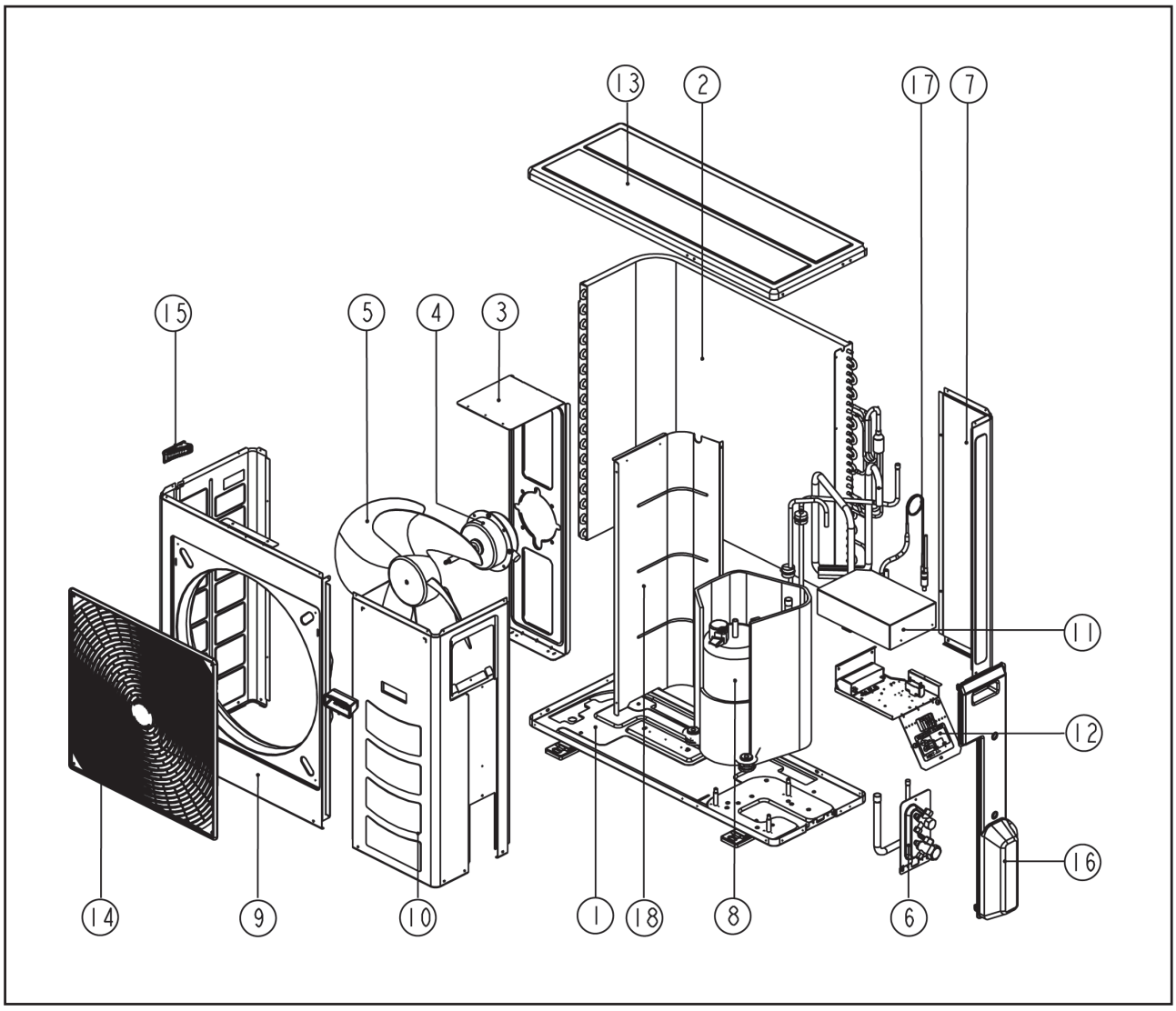
## Model : MLC 018 / 020C




| No | Descriptions | Part No |
|---|---|---|
| 1 | ASSY,PAN BASE (5SL20C/CR) | R50014078281 |
| 2 | ASSY,OUTDOOR COIL 7mm coil | |
| | MLC 018C | R50024089940 |
| | MLC 020C | R50024084570 |
| 3 | BRACKET MOTOR (SL20C/CR) | R01014070601 |
| 4 | MOTOR, YDK64-6C/MSL25C-501-WL | R03039024539 |
| 5 | FAN PROPELLER, ¥460 0Z40700 SUNWILL CHINA | R03019023393 |
| 6 | ASSY VALVE BRACKET (SL20C/CR)-R22 | R50014072861 |
| 7 | PANEL RIGHT BACK (SL20C/CR) | R01014070599 |
| 8 | COMPRESSOR, 2KS324D5AA04 Matsushita | R04019027266 |
| 9 | PANEL FRONT/LEFT (SL20C/CR) | R01014070597 |
| 10 | PANEL SERVICE (SL20C/CR) | R01014070598 |
| 11 | PANEL TERMINAL COVER (SL20C/25C/28C/CR) | R01014070838 |
| 12 | ASSY CONTROL PANEL (SL20C/25C) | R50044086133 |

| No | Descriptions | Part No |
|---|---|---|
| 13 | PANEL TOP (SL20C/25C/28C/CR) | R01014070596 |
| 14 | ASSY FRONT GRILLE (SL20C/25C/28C/CR) | R50124072880 |
| 15 | PLASTIC,HANDLE SL07C/09C/10C/15C/CR | R12014057948 |
| 16 | ASSY VALVE COVER (SL20C/CR) | R50124072885 |
| 17 | ASSY. CAP TUBE DIET COMP | |
| | MLC 018C | R50024089926 |
| | MLC 020C | R50024087066 |
| 18 | PARTITION (SL20C/CR) | R01014070603 |
| **Parts not showed in diagram** | | |
| | ASSY FLARE VALVE 3 WAY(5/8")SL20C/25C/28 | R50054072863 |
| | ASSY,VALVE 2 WAY(1/4")JA28493-1MA HANGJI | R50059022156 |
| | CAPACITOR, CMPSR 60uF/450V Shizuki | R04029026782 |
| | BACK GRILLE WITH PAINT (SL18C/20C/CR) | R50019026515 |

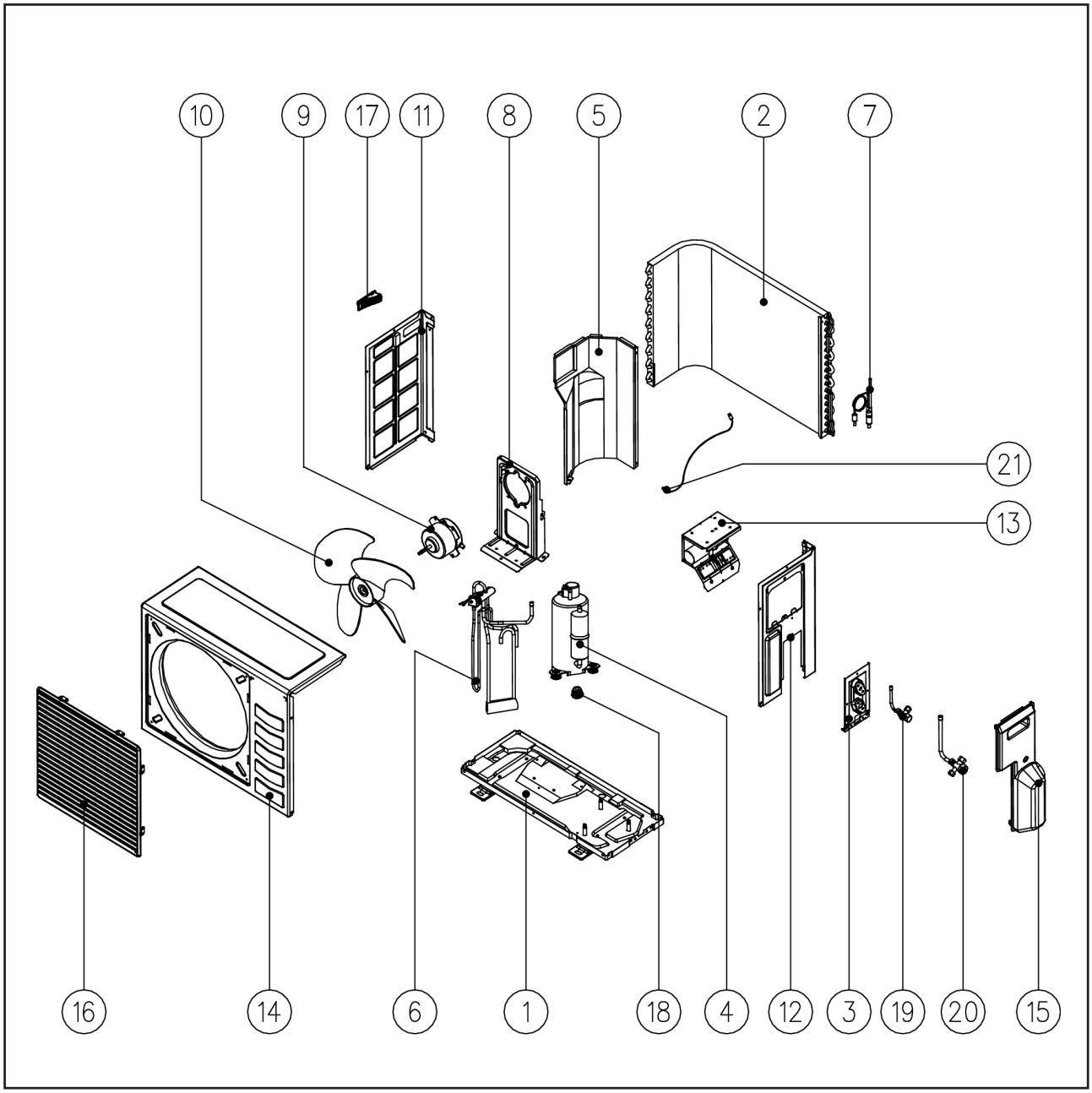
## Model : MLC 025C




| No | Descriptions | Part No |
|---|---|---|
| 1 | ASSY,PAN BASE (5SL20C/CR) | R50014078281 |
| 2 | ASSY. OUTDOOR COIL (SL25C) 7MM COIL DIET | R50024089206 |
| 3 | BRACKET MOTOR (SL25C/28C/CR) | R01014070948 |
| 4 | MOTOR, MSL25C-502-WL WELLING | R03039028207 |
| 5 | FAN PROPELLER, ¥460 0Z40700 SUNWILL CHINA | R03019023393 |
| 6 | ASSY VALVE BRACKET (SL25C/28C/CR)R22 | R50014073890 |
| 7 | PANEL RIGHT BACK (SL25C/28C/CR) | R01014070950 |
| 8 | COMPRESSOR, ASSY 48B180JV2JH SAMSUNG | R50049022614 |
| 8 | COMPRESSOR, 2JS438D3AA04 MATSUSHITA | R04019027570 |
| 9 | PANEL FRONT / LEFT | R01014070947 |
| 10 | PANEL SERVICE (SL25C/28C/CR) | R01014070949 |
| 11 | PANEL TERMINAL COVER (SL20C/25C/28C/CR) | R01014070838 |
| 12 | ASSY CONTROL PANEL (5SL20C) | R50044086076 |

| No | Descriptions | Part No |
|---|---|---|
| 13 | PANEL TOP (SL20C/25C/28C/CR) | R01014070596 |
| 14 | ASSY FRONT GRILLE (SL20C/25C/28C/CR) | R50124072880 |
| 15 | PLASTIC,HANDLE SL07C/09C/10C/15C/CR | R12014057948 |
| 16 | ASSY VALVE COVER (SL25C/28C/CR) | R50124073905 |
| 17 | ASSY. CAP TUBE SL25C/CR (7MM COIL) DIET | R50024090095 |
| 18 | PARTITION (SL25C/28C/CR) | R01014070951 |
| **Parts not showed in diagram** | | |
| | ASSY FLARE VALVE 3 WAY(5/8")SL20C/25C/28 | R50054072863 |
| | ASSY, 3 WAYS VALVE (3/8") 90.0mmL HANGJI | R50059022577 |
| | FELT, COMPRESSOR (SL20/25C COMP) | R06074084746 |
| | BACK GRILLE WITH PAINT (SL25C/28C/CR) | R50019026514 |
| | CAPACITOR, CMPSR 50uF/450VAC Shizuki | R04029026779 |

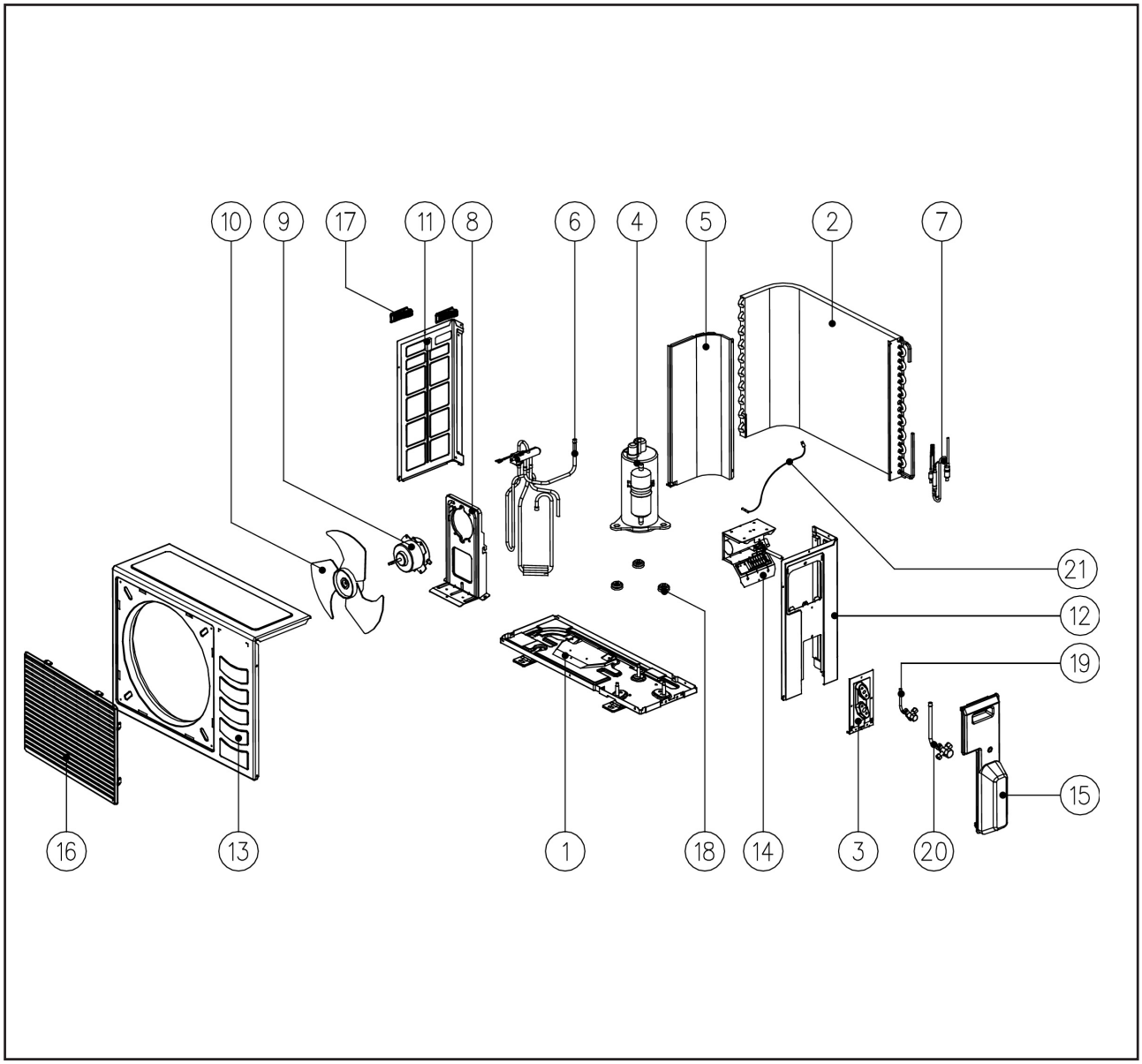
## Model: MLC 009CR




| No | Descriptions | Part No |
|---|---|---|
| 1 | Assy., Base Pan | R50014057372 |
| 2 | Assy., Condenser Coil | R50024064204 |
| 3 | Valve Bracket | R01014051164 |
| 4 | Compressor | |
| | MLC 009CR | R50049016211 |
| 5 | Assy., Partition | R50064065275 |
| 6 | Assy., 4 Way Vlave | |
| | MLC 009CR | R50024065011 |
| 7 | Assy., Cap Tube | |
| | MLC 009CR | R50024065046 |
| 8 | Bracket, Fan Motor | R01014052516 |
| 9 | Fan Motor | R03039015324 |

| No | Descriptions | Part No |
|---|---|---|
| 10 | Fan Blade | R03019004131 |
| 11 | Left Panel | R01014052510 |
| 12 | Right Panel | R01014052509 |
| 13 | Assy. Control Panel | R50044059032 |
| 14 | Assy., Front Panel | R01014052512 |
| 15 | Assy., Valve Cover | R50124055172 |
| 16 | Assy., Front Grille | R50124056905 |
| 17 | Plastic, Handle | R12014057948 |
| 18 | Rubber Grommet | R11059016218 |
| 19 | Assy., Flare Valve 2 Ways 1/4" | R50054054950 |
| 20 | Assy., Flare Valve 3 Ways 3/8" | R50054054951 |
| 21 | Sensor, Outdoor Defrost | R50134039416 |

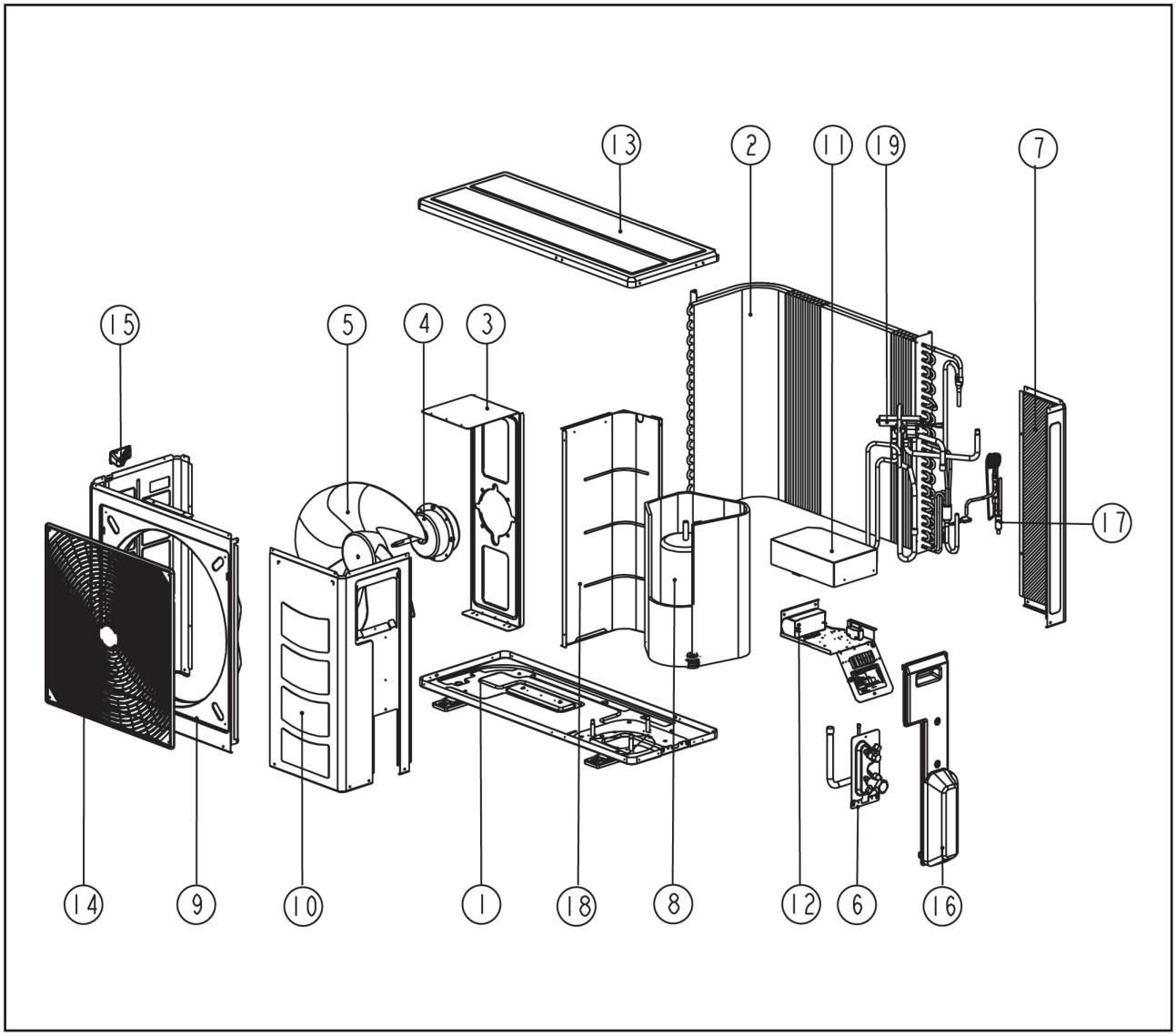
## Model: MLC 010CR / 015CR




| No | Descriptions | Part No |
|---|---|---|
| 1 | Assy., Base Pan | R50014051158 |
| 2 | Assy., Condenser Coil | |
| | MLC 010CR | R50024065601 |
| | MLC 015CR | R50024060071 |
| 3 | Valve Bracket | R01014051164 |
| 4 | Compressor | |
| | MLC 010CR | R04019019550 |
| | MLC 015CR | R04019019125 |
| 5 | Assy., Partition | R01014051165 |
| 6 | Assy., 4 Way Valve | R05019004157 |
| 7 | Assy., Cap Tube | |
| | MLC 010CR | R50024065311 |
| | MLC 015CR | R50024064508 |
| 8 | Bracket, Fan Motor | R01014051162 |
| 9 | Fan Motor | |
| | MLC 010CR | R03039016104 |
| | MLC 015CR | R03039015323 |
| 10 | Fan Blade | R03019015339 |

| No | Descriptions | Part No |
|---|---|---|
| 11 | Left Panel | R01014051166 |
| 12 | Right Panel | R01014051167 |
| 13 | Assy., Front Panel | R01014051171 |
| 14 | Assy. Control Panel | |
| | MLC 010CR | R50044059033 |
| | MLC 015CR | R50044059034 |
| 15 | Assy., Valve Cover | R50124051173 |
| 16 | Assy., Front Grille | R50124056700 |
| 17 | Plastic, Handle | R12014057948 |
| 18 | Rubber Grommet | |
| | MLC 010CR | R11059000271 |
| | MLC 015CR | R11054000272 |
| 19 | Assy., Flare Valve 2 Ways 1/4" | R50051054950 |
| 20 | Assy., Flare Valve 3 Ways 3/8" | |
| | MLC 010CR | R50054054951 |
| | Assy., Flare Valve 3 Ways 1/2" | |
| | MLC 015CR | R50054064042 |
| 21 | Sensor, Outdoor Defrost | R50134039416 |

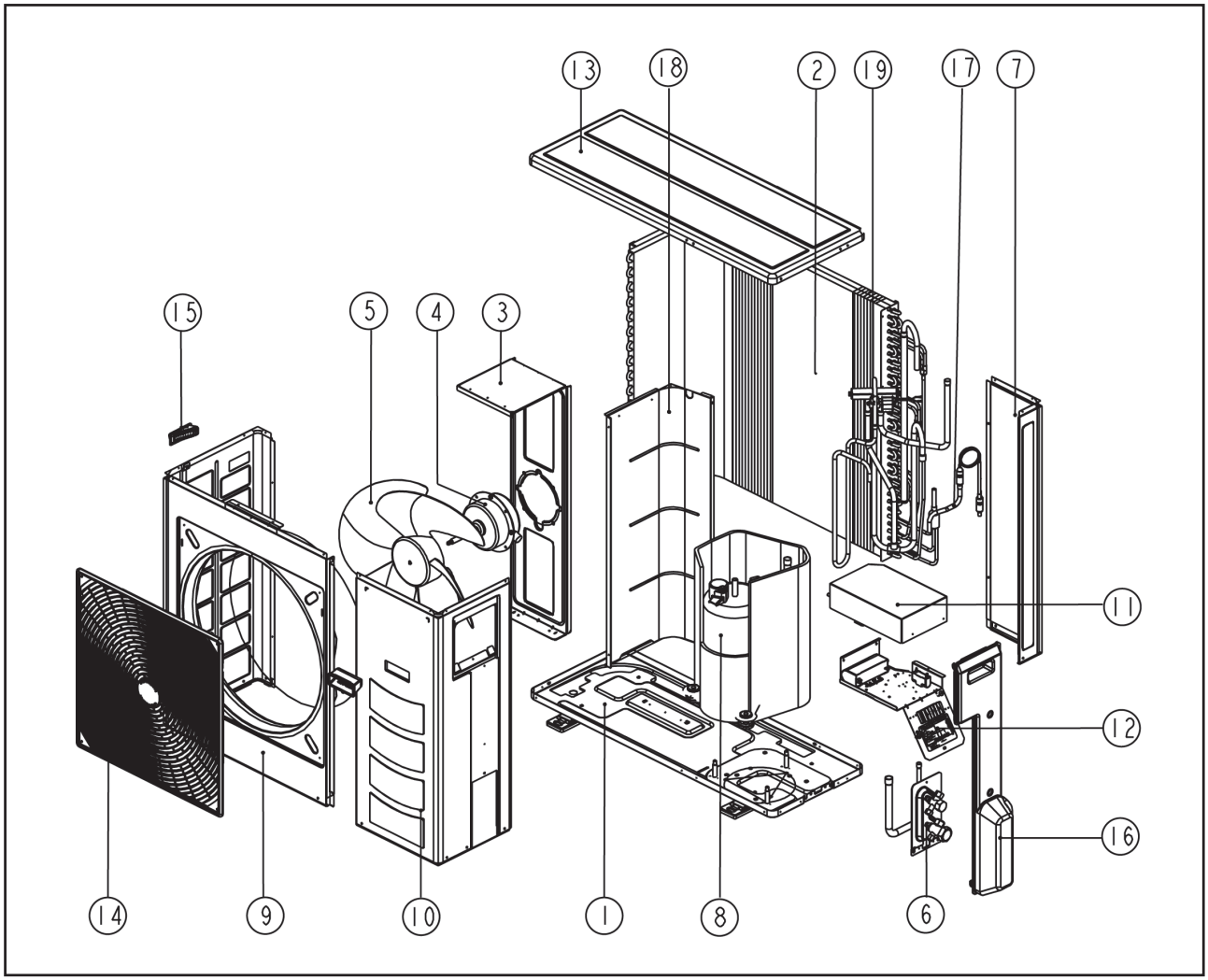
## Model: MLC 018CR / 020CR




| No | Descriptions | Part No |
|---|---|---|
| 1 | ASSY,PAN BASE (5SL20C/CR) | R50014078281 |
| 2 | ASSY,OUTDOOR COIL 7mm coil | |
| | MLC 018CR | R50024090296 |
| | MLC 020CR | R50024075143 |
| 3 | BRACKET MOTOR (SL20C/CR) | R01014070601 |
| 4 | MOTOR, YDK64-6C/MSL25C-501-WL | R03039024539 |
| 5 | FAN PROPELLER, ¥460 0Z40700 SUNWILL CHINA | R03019023393 |
| 6 | ASSY VALVE BRACKET (SL20C/CR)-R22 | R50014072861 |
| 7 | PANEL RIGHT BACK (SL20C/CR) | R01014070599 |
| 8 | COMPRESSOR, 2KS324D5AA04 Matsushita | R04019027266 |
| 9 | PANEL FRONT/LEFT (SL20C/CR) | R01014070597 |
| 10 | PANEL SERVICE (SL20C/CR) | R01014070598 |
| 11 | PANEL TERMINAL COVER (SL20C/25C/28C/CR) | R01014070838 |
| 12 | ASSY. CONTROL PANEL (SL20CR/25CR) | R50044086143 |

| No | Descriptions | Part No |
|---|---|---|
| 13 | PANEL TOP (SL20C/25C/28C/CR) | R01014070596 |
| 14 | ASSY FRONT GRILLE (SL20C/25C/28C/CR) | R50124072880 |
| 15 | PLASTIC,HANDLE SL07C/09C/10C/15C/CR | R12014057948 |
| 16 | ASSY VALVE COVER (SL20C/CR) | R50124072885 |
| 17 | ASSY. CAP TUBE DIET COMP | |
| | MLC 018CR | R50024089931 |
| | MLC 020CR | R50024087058 |
| 18 | PARTITION (SL20C/CR) | R01014070603 |
| **Parts not showed in diagram** | | |
| | ASSY FLARE VALVE 3 WAY(5/8")SL20C/25C/28 | R50054072863 |
| | ASSY,VALVE 2 WAY(1/4")JA28493-1MA HANGJI | R50059022156 |
| | CAPACITOR, CMPSR 60uF/450V Shizuki | R04029026782 |
| | BACK GRILLE WITH PAINT (SL18C/20C/CR) | R50019026515 |

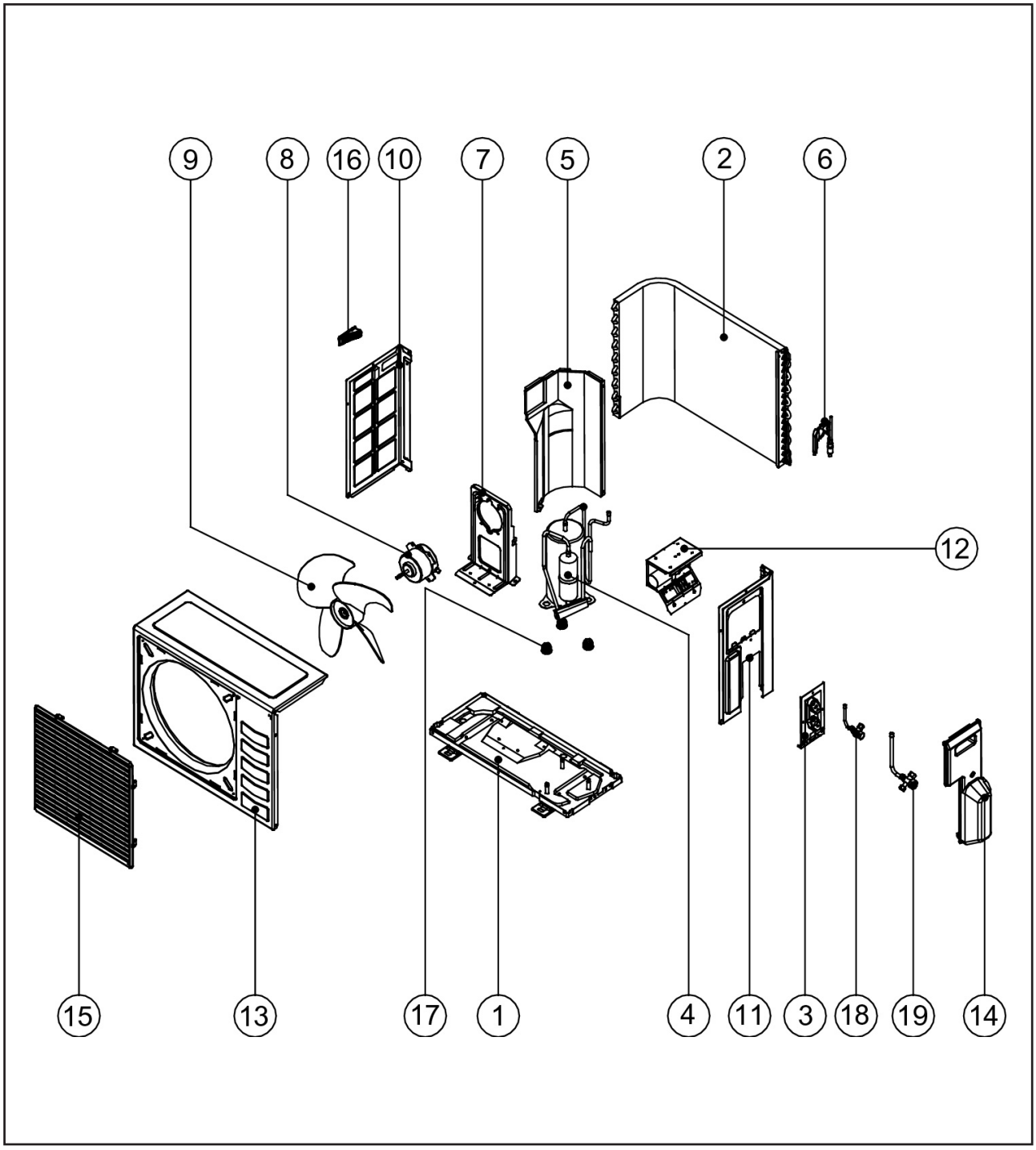
## Model: MLC 025CR




| No | Descriptions | Part No |
|---|---|---|
| 1 | ASSY,PAN BASE (5SL20C/CR) | R50014078281 |
| 2 | ASSY. OUTDOOR COIL(SL25CR)2 ROW 7MM COIL | R50024088731 |
| 3 | BRACKET MOTOR (SL25C/28C/CR) | R01014070948 |
| 4 | MOTOR, MSL25C-502-WL WELLING | R03039028207 |
| 5 | FAN PROPELLER, ¥460 0Z40700 SUNWILL CHINA | R03019023393 |
| 6 | ASSY VALVE BRACKET (SL25C/28C/CR)R22 | R50014073890 |
| 7 | PANEL RIGHT BACK (SL25C/28C/CR) | R01014070950 |
| 8 | COMPRESSOR, ASSY 48B180JV2JH SAMSUNG | R50049022614 |
| 8 | COMPRESSOR, 2JS438D3AA04 MATSUSHITA | R04019027570 |
| 9 | PANEL FRONT / LEFT | R01014070947 |
| 10 | PANEL SERVICE (SL25C/28C/CR) | R01014070949 |
| 11 | PANEL TERMINAL COVER (SL20C/25C/28C/CR) | R01014070838 |
| 12 | ASSY. CONTROL PANEL (5SL20CR) | R50044086136 |

| No | Descriptions | Part No |
|---|---|---|
| 13 | PANEL TOP (SL20C/25C/28C/CR) | R01014070596 |
| 14 | ASSY FRONT GRILLE (SL20C/25C/28C/CR) | R50124072880 |
| 15 | PLASTIC,HANDLE SL07C/09C/10C/15C/CR | R12014057948 |
| 16 | ASSY VALVE COVER (SL25C/28C/CR) | R50124073905 |
| 17 | ASSY. CAP TUBE SL25C/CR (7MM COIL) | R50024088789 |
| 18 | PARTITION (SL25C/28C/CR) | R01014070951 |
| **Parts not showed in diagram** | | |
| | ASSY FLARE VALVE 3 WAY(5/8")SL20C/25C/28 | R50054072863 |
| | ASSY, 3 WAYS VALVE (3/8") 90.0mmL HANGJI | R50059022577 |
| | FELT, COMPRESSOR (SL20/25C COMP) | R06074084746 |
| | BACK GRILLE WITH PAINT (SL25C/28C/CR) | R50019026514 |
| | CAPACITOR, CMPSR 50uF/450VAC Shizuki | R04029026779 |

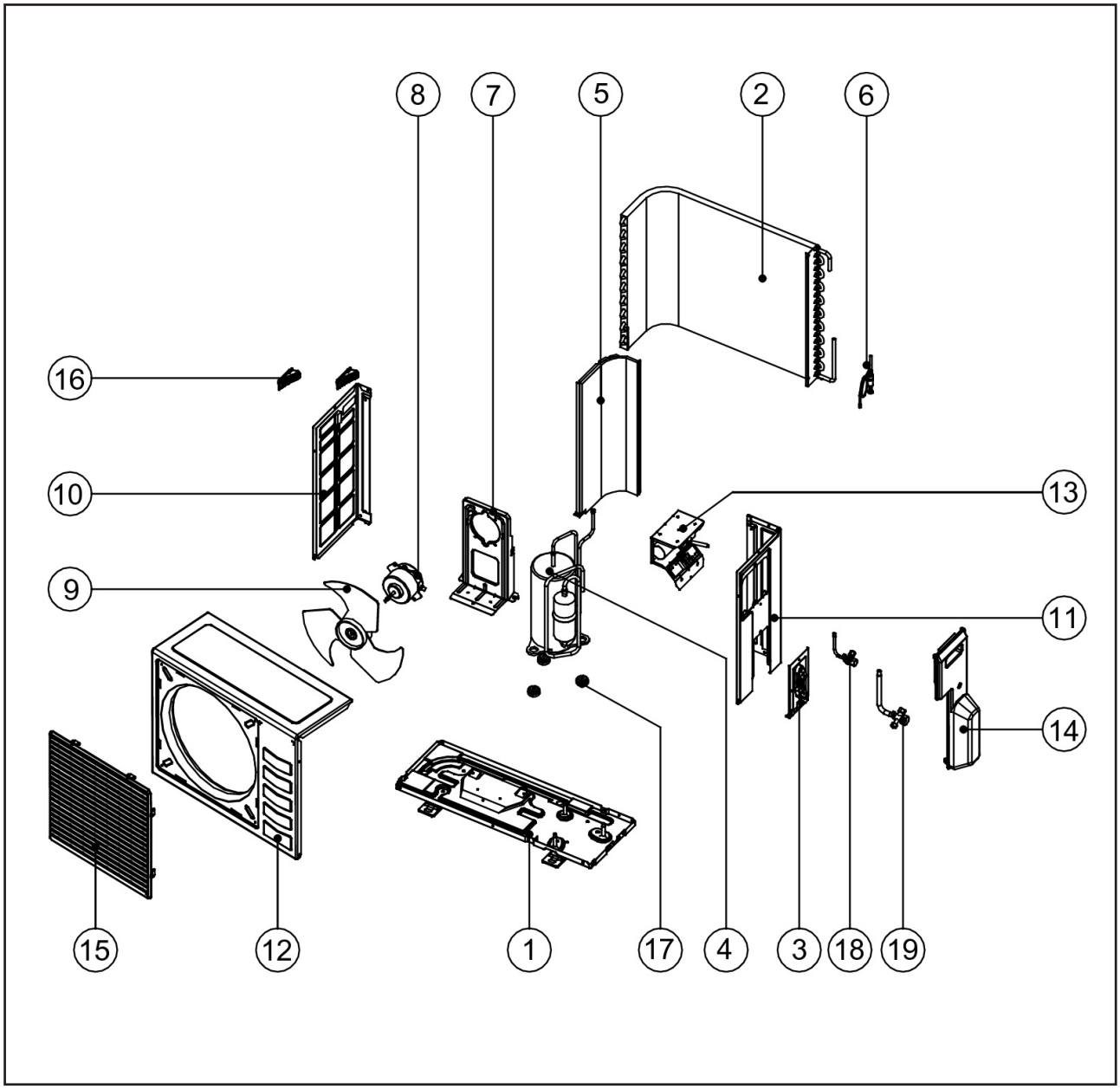
## OUTDOOR UNIT
## MODEL: M5LC 007C




| No | Descriptions | Part No |
|---|---|---|
| 1 | Assy., Base Pan | R50014057372 |
| 2 | Assy., Condenser Coil | R50024064720 |
| 3 | Valve Bracket | R01014051164 |
| 4 | Compressor | R04019019592 |
| 5 | Assy., Partition | R50064065275 |
| 6 | Assy., Cap Tube | R50024064527 |
| 7 | Bracket, Fan Motor | R01014052516 |
| 8 | Fan Motor | R03039015324 |
| 9 | Fan Blade | R03019004131 |

| No | Descriptions | Part No |
|---|---|---|
| 10 | Left Panel | R01014052510 |
| 11 | Right Panel | R01014052509 |
| 12 | Assy. Control Panel | R50044054806 |
| 13 | Assy., Front Panel | R01014052512 |
| 14 | Assy., Valve Cover | R50124055172 |
| 15 | Assy., Front Grille | R50124056905 |
| 16 | Plastic, Handle | R12014057948 |
| 17 | Rubber Grommet | R11059011558 |
| 18 | Assy., Flare Valve 2 Ways 1/4" | R50059019453 |
| 19 | Assy., Flare Valve 3 Ways 3/8" | R50059019454 |

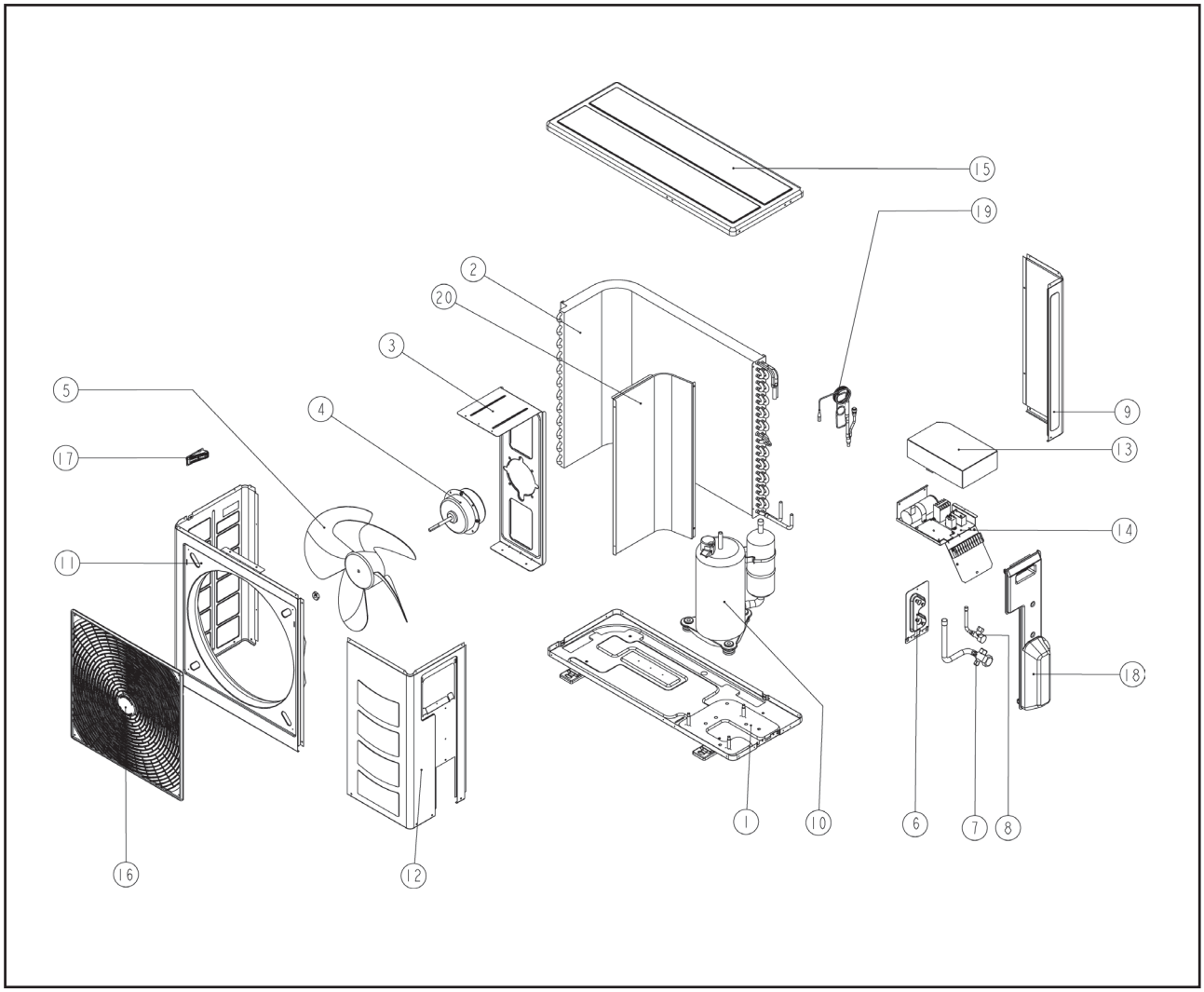
## Model: M5LC 010C / 015C




| No | Descriptions | Part No |
|---|---|---|
| 1 | Assy., Base Pan | R50014051158 |
| 2 | Assy., Condenser Coil | R50024064721 |
| 3 | Valve Bracket | R01014051164 |
| 4 | Compressor | |
| | M5LC 10C | R04019019590 |
| | M5LC 15C | R04019019594 |
| 5 | Assy., Partition | R50064055063 |
| 6 | Assy., Cap Tube | |
| | M5LC 10C | R50024056101 |
| | M5LC 15C | R50024054807 |
| 7 | Bracket, Fan Motor | R01014051162 |
| 8 | Fan Motor | |
| | M5LC 10C | R03039016104 |
| | M5LC 15C | R03039015323 |
| 9 | Fan Blade | R03019015339 |
| 10 | Left Panel | R01014051166 |

| No | Descriptions | Part No |
|---|---|---|
| 11 | Right Panel | R01014051167 |
| 12 | Assy., Front Panel | R01014051171 |
| 13 | Assy. Control Panel | |
| | M5LC 10C | R50044058195 |
| | M5LC 15C | R50044057994 |
| 14 | Assy., Valve Cover | R50124051173 |
| 15 | Assy., Front Grille | R50124056700 |
| 16 | Plastic, Handle | R12014057948 |
| 17 | Rubber Grommet | |
| | M5LC 10C | R11054000272 |
| | M5LC 15C | R11054000271 |
| 18 | Assy., Flare Vlave 2 Ways 1/4" | R50059019453 |
| 19 | Assy., Flare Valve 3 Ways 3/8" | |
| | M5LC 10C | R50059019454 |
| | Assy., Flare Valve 3 Ways 1/2" | |
| | M5LC 15C | R50054019452 |

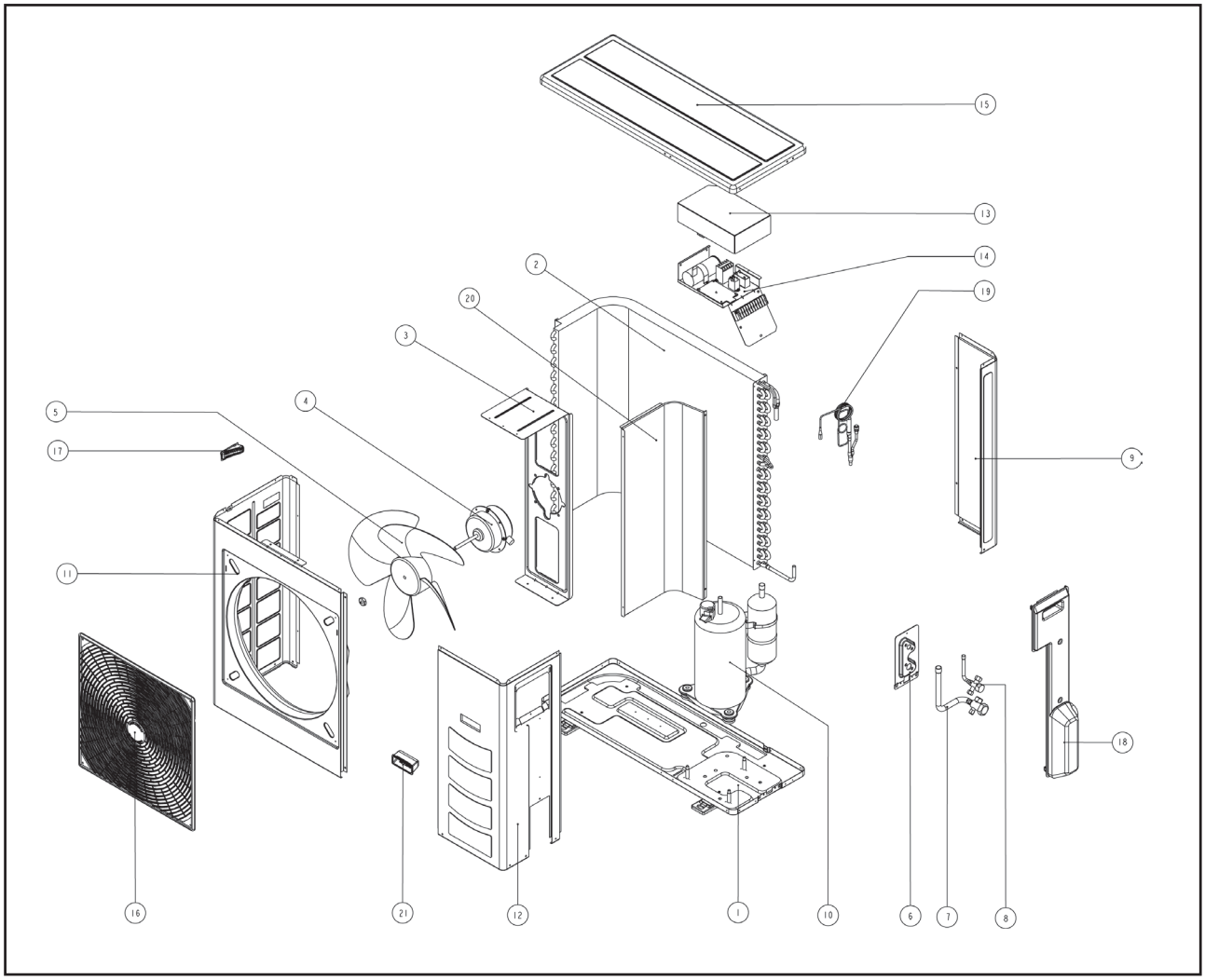
## MODEL: M5LC 020C




| No | Descriptions | Part No |
|---|---|---|
| 1 | Assy. Base Pan | |
| | MLC 018C | R50014077978 |
| | M5LC/MLC 020C | R50014013884 |
| 2 | Assy. Outdoor Coil | |
| | MLC 018C | R50024077968 |
| | MLC 020C | R50024070651 |
| | M5LC 020C | R50024079078 |
| 3 | Motor Bracket | R01014070601 |
| 4 | Fan Motor | |
| | MLC 018C | R03039024539 |
| | M5LC/MLC 020C | R03039023391 |
| 5 | Fan Blade | R03019023393 |
| 6 | Valve Bracket | R50014072861 |
| 7 | Assy. Flare Valve 3 Ways 5/8" | |
| | MLC 018C/020C | R50054072863 |
| | Assy. Flare Valve 3 Ways 1/2" | |
| | M5LC 020C | R50059023335 |
| 8 | Assy. Flare Valve 2 Ways 1/4" | |
| | MLC 018C/020C | R50059022156 |
| 9 | Assy. Flare Valve 2 Ways 1/4" | |
| | M5LC 020C | R50059023334 |
| | Back Panel, Right | R01014070599 |

| No | Descriptions | Part No |
|---|---|---|
| 10 | Compressor | |
| | MLC 018C | R50049022614 |
| | MLC 020C | R04019018334 |
| | M5LC 020C | R04019021361 |
| 11 | Front Panel, Left | R01014070597 |
| 12 | Service Panel | R01014070598 |
| 13 | Terminal Cover Panel | R01014070838 |
| 14 | Assy. Control Panel | |
| | MLC 018C | R50044077990 |
| | MLC 020C | R50044073902 |
| | M5LC 020C | R50044072876 |
| 15 | Top Panel | R01014070596 |
| 16 | Assy. Front Grille | R50124072880 |
| 17 | Plastic Handle | R12014057948 |
| 18 | Assy. Valve Cover | R50124072885 |
| 19 | Assy. Cap Tube | |
| | MLC 018C | R50024077976 |
| | MLC 020C | R50024077257 |
| | M5LC 020C | R50024079156 |
| 20 | Partition | R01014070603 |

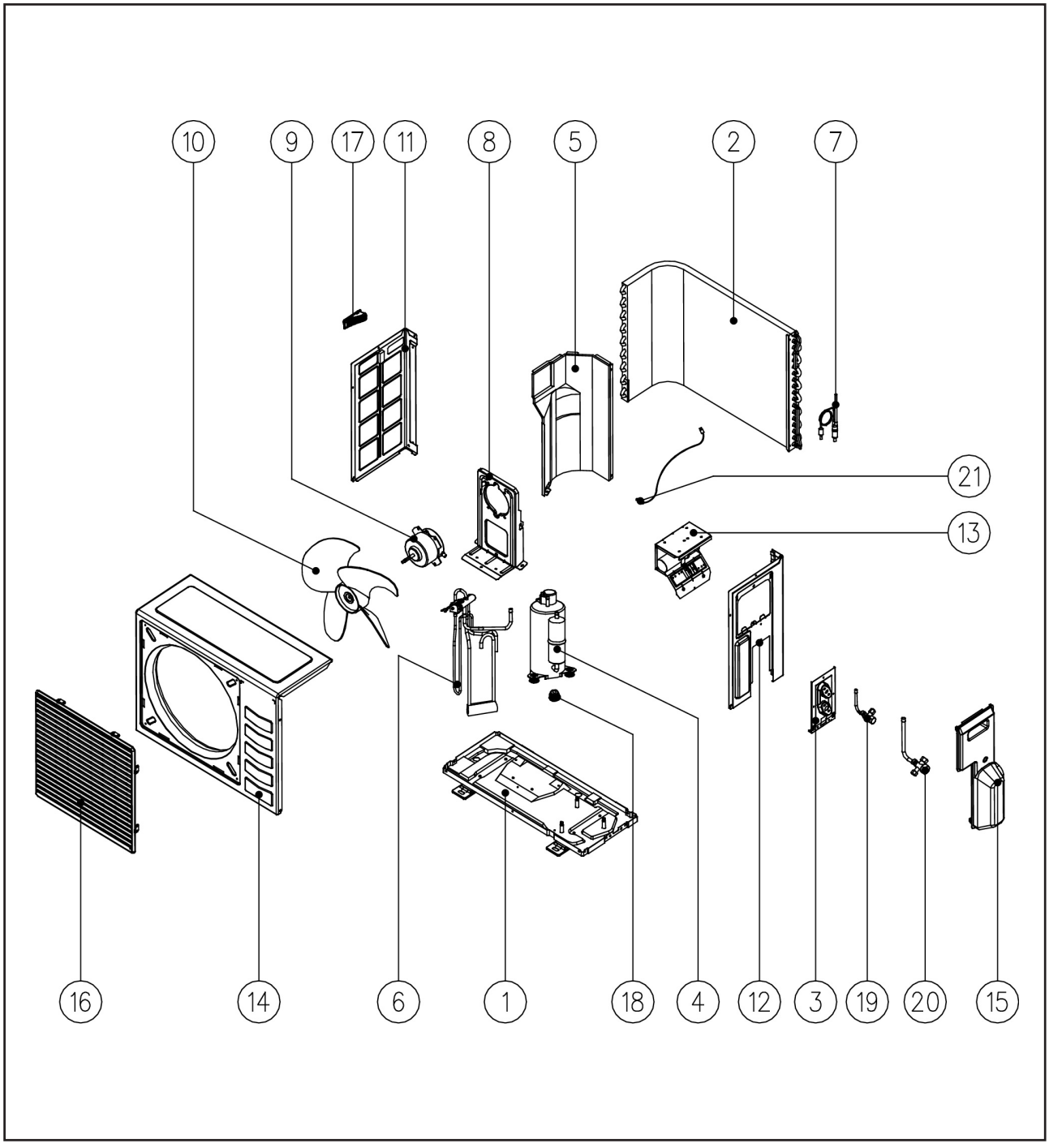
## MODEL: M5LC 025 / 028C




| No | Descriptions | Part No |
|---|---|---|
| 1 | Assy. Base Pan | R50014073884 |
| 2 | Assy. Outdoor Coil | |
| | MLC 025C/028C | R50024070959 |
| | M5LC 025C/028C | R50024079238 |
| 3 | Motor Bracket | R01014070948 |
| 4 | Fan Motor | |
| | M5LC/MLC 025C | R03039023391 |
| | M5LC/MLC 028C | R03039024538 |
| 5 | Fan Blade | R03019023393 |
| 6 | Valve Bracket | R50014073890 |
| 7 | Assy. Flare Valve 3 Ways 5/8" | |
| | MLC 025C/028C | R50054072863 |
| | M5LC 025C/028C | R50059023336 |
| 8 | Assy. Flare Valve 2 Ways 3/8" | |
| | MLC 025C/028C | R50059022577 |
| | M5LC 025C | R50059023334 |
| | Assy. Flare Valve 3 Ways 3/8" | |
| | M5LC28C | R50059024820 |
| 9 | Back Panel, Right | R01014070950 |
| 10 | Compressor | |
| | MLC 025C | R04019019032 |
| | MLC 028C | R04019012828 |
| | M5LC 025C/028C | R04019020449 |

| No | Descriptions | Part No |
|---|---|---|
| 11 | Front Panel, Left | R01014070947 |
| 12 | Service Panel | R01014070949 |
| 13 | Terminal Cover Panel | R01014070838 |
| 14 | Assy. Control Panel | |
| | M5LC/MLC 025C | R50044073902 |
| | MLC 028C | R50044080172 |
| | M5LC 028C | R50044080648 |
| 15 | Top Panel | R01014070596 |
| 16 | Assy. Front Grille | R50124072880 |
| 17 | Plastic Handle, Side | R12014057948 |
| 18 | Assy. Valve Cover | R50124073905 |
| 19 | Assy. Cap Tube | |
| | MLC 025C | R50024073895 |
| | M5LC 025C | R50024078311 |
| | M5LC 028C | R50024079593 |
| 20 | Partition | R01014070951 |
| 21 | Plastic Handle, Front | R12014070955 |

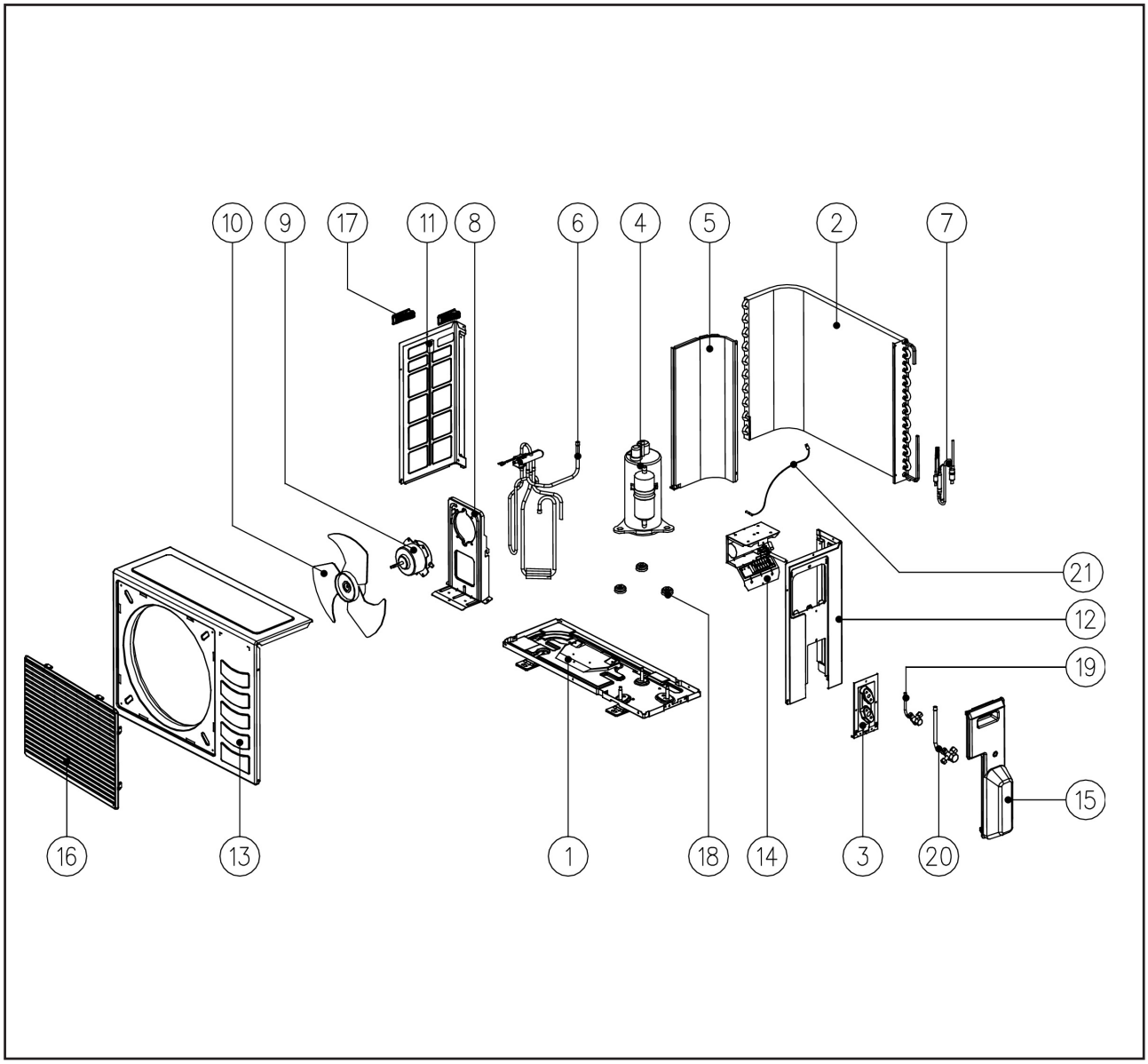
## MODEL: M5LC 007CR




| No | Descriptions | Part No |
|---|---|---|
| 1 | Assy., Base Pan | R50014057372 |
| 2 | Assy., Condenser Coil | R50024064720 |
| 3 | Valve Bracket | R01014051164 |
| 4 | Compressor | R04019019592 |
| 5 | Assy., Partition | R50064065275 |
| 6 | Assy., 4 Way Vlave | R50024066259 |
| 7 | Assy., Cap Tube | R50024066452 |
| 8 | Bracket, Fan Motor | R01014052516 |
| 9 | Fan Motor | R03039015324 |
| 10 | Fan Blade | R03019004131 |
| 11 | Left Panel | R01014052510 |

| No | Descriptions | Part No |
|---|---|---|
| 12 | Right Panel | R01014052509 |
| 13 | Assy. Control Panel | R50044059032 |
| 14 | Assy., Front Panel | R01014052512 |
| 15 | Assy., Valve Cover | R50124055172 |
| 16 | Assy., Front Grille | R50124056905 |
| 17 | Plastic, Handle | R12014057948 |
| 18 | Rubber Grommet | R11059011558 |
| 19 | Assy., Flare Valve 2 Ways 1/4" | R50059019453 |
| 20 | Assy., Flare Valve 3 Ways 3/8" | R50059019454 |
| 21 | Sensor, Outdoor Defrost | R50134039416 |

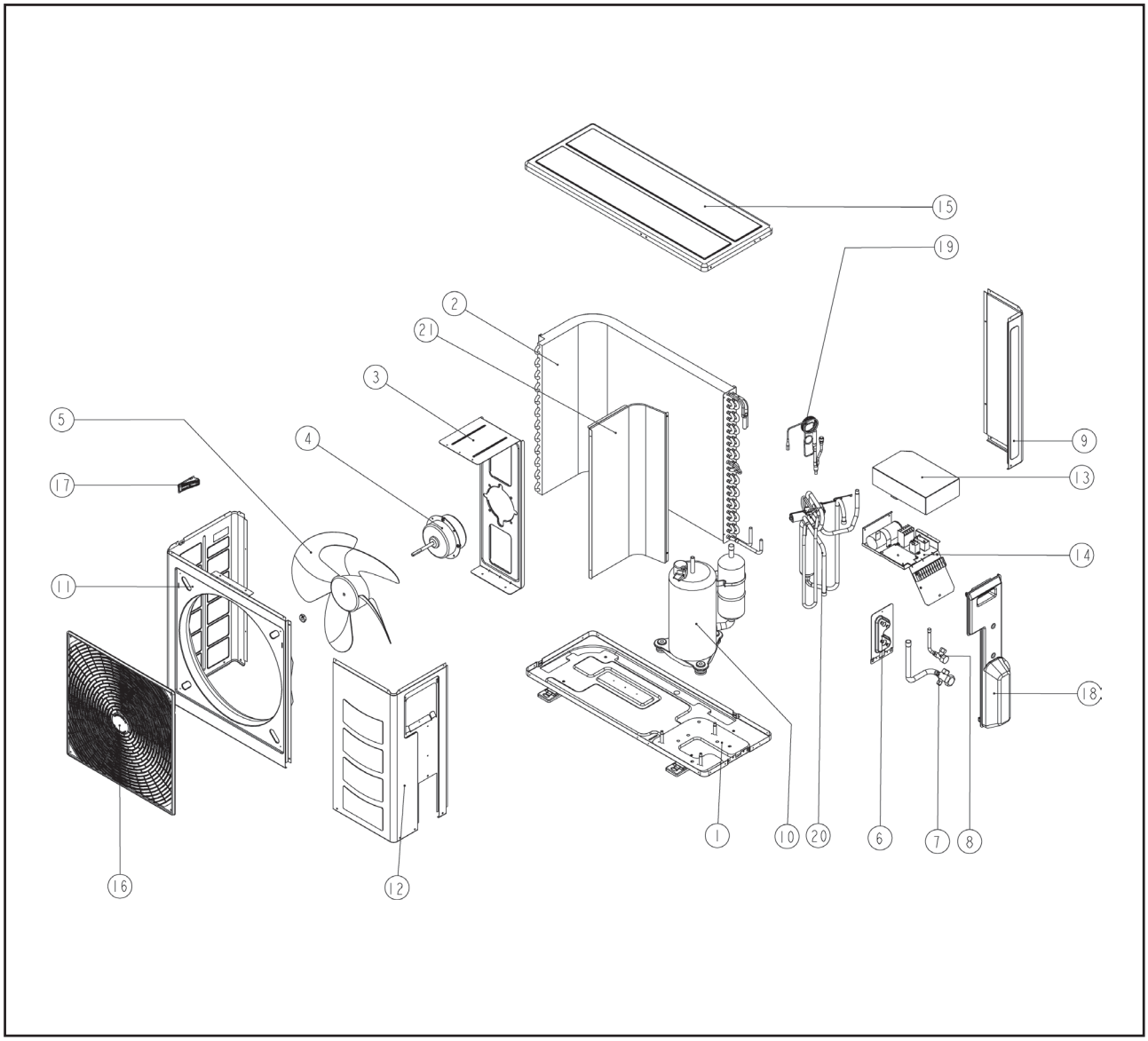
## Model: M5LC 010CR / 015CR




| No | Descriptions | Part No |
|---|---|---|
| 1 | Assy., Base Pan | R50014051158 |
| 2 | Assy., Condenser Coil | |
| | M5LC 10CR | R50024064721 |
| | M5LC 15CR | R50024066517 |
| 3 | Valve Bracket | R01014051164 |
| 4 | Compressor | |
| | M5LC 10CR | R04019019590 |
| | M5LC 15CR | R04019019594 |
| 5 | Assy., Partition | R01014051165 |
| 6 | Assy., 4 Way Valve | R50024066173 |
| 7 | Assy., Cap Tube | |
| | M5LC 10CR | R50024066256 |
| | M5LC 15CR | R50024066493 |
| 8 | Bracket, Fan Motor | R01014051162 |
| 9 | Fan Motor | |
| | M5LC 10CR | R03039016104 |
| | M5LC 15CR | R03039015323 |
| 10 | Fan Blade | R03019015339 |

| No | Descriptions | Part No |
|---|---|---|
| 11 | Left Panel | R01014051166 |
| 12 | Right Panel | R01014051167 |
| 13 | Assy., Front Panel | R01014051171 |
| 14 | Assy. Control Panel | |
| | M5LC 10CR | R50044059033 |
| | M5LC 15CR | R50044059034 |
| 15 | Assy., Valve Cover | R50124051173 |
| 16 | Assy., Front Grille | R50124056700 |
| 17 | Plastic, Handle | R12014057948 |
| 18 | Rubber Grommet | |
| | M5LC 10CR | R11054000272 |
| | M5LC 15CR | R11054000271 |
| 19 | Assy., Flare Valve 2 Ways 1/4" | R50059019453 |
| 20 | Assy., Flare Valve 3 Ways 3/8" | |
| | M5LC 10CR | R50059019454 |
| | Assy., Flare Valve 3 Ways 1/2" | |
| | M5LC 15CR | R50054019452 |
| 21 | Sensor, Outdoor Defrost | R50134039416 |

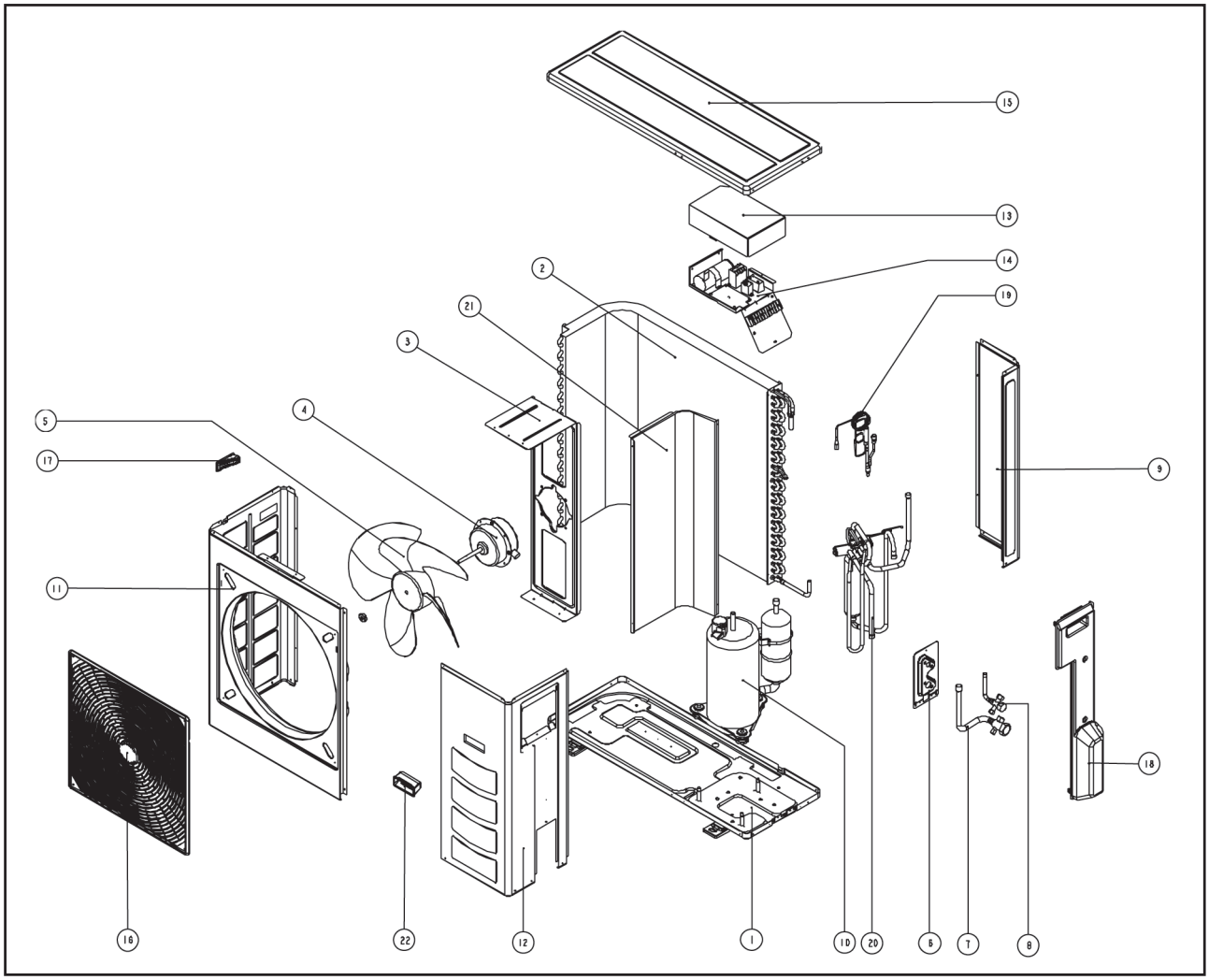
## MODEL: M5LC 020CR




| No | Descriptions | Part No |
|---|---|---|
| 1 | Assy. Base Pan | R50014073884 |
| 2 | Assy. Outdoor Coil | |
| | MLC 020CR | R50024077089 |
| | M5LC 020CR | R50024075143 |
| 3 | Motor Bracket | R01014070601 |
| 4 | Fan Motor | R03039023391 |
| 5 | Fan Blade | R03019023393 |
| 6 | Valve Bracket | R50014072861 |
| 7 | Assy. Flare Valve 3 Ways 5/8" | |
| | MLC 020CR | R50054072863 |
| | Assy. Flare Valve 3 Ways 1/2" | |
| | M5LC 020CR | R50059023335 |
| 8 | Assy. Flare Valve 2 Ways 1/4" | |
| | MLC 020CR | R50059022156 |
| | M5LC 020CR | R50059023334 |
| 9 | Back Panel, Right | R01014070599 |
| 10 | Compressor | |
| | MLC 020CR | R04019018334 |
| | M5LC 020CR | R04019021361 |

| No | Descriptions | Part No |
|---|---|---|
| 11 | Front Panel, Left | R01014070597 |
| 12 | Service Panel | R01014070598 |
| 13 | Terminal Cover Panel | R01014070838 |
| 14 | Assy. Control Panel | |
| | MLC 020CR | R50044077198 |
| | M5LC 020CR | R50044077200 |
| 15 | Top Panel | R01014070596 |
| 16 | Assy. Front Grille | R50124072880 |
| 17 | Plastic Handle | R12014057948 |
| 18 | Assy. Valve Cover | R50124072885 |
| 19 | Assy.Cap Tube | |
| | MLC 020CR | R50024076304 |
| | M5LC 020CR | R50024078285 |
| 20 | Assy. 4 Way Valve | |
| | MLC 020CR | R05019004158 |
| | M5LC 020CR | R05019016937 |
| 21 | Partition | R01014070603 |

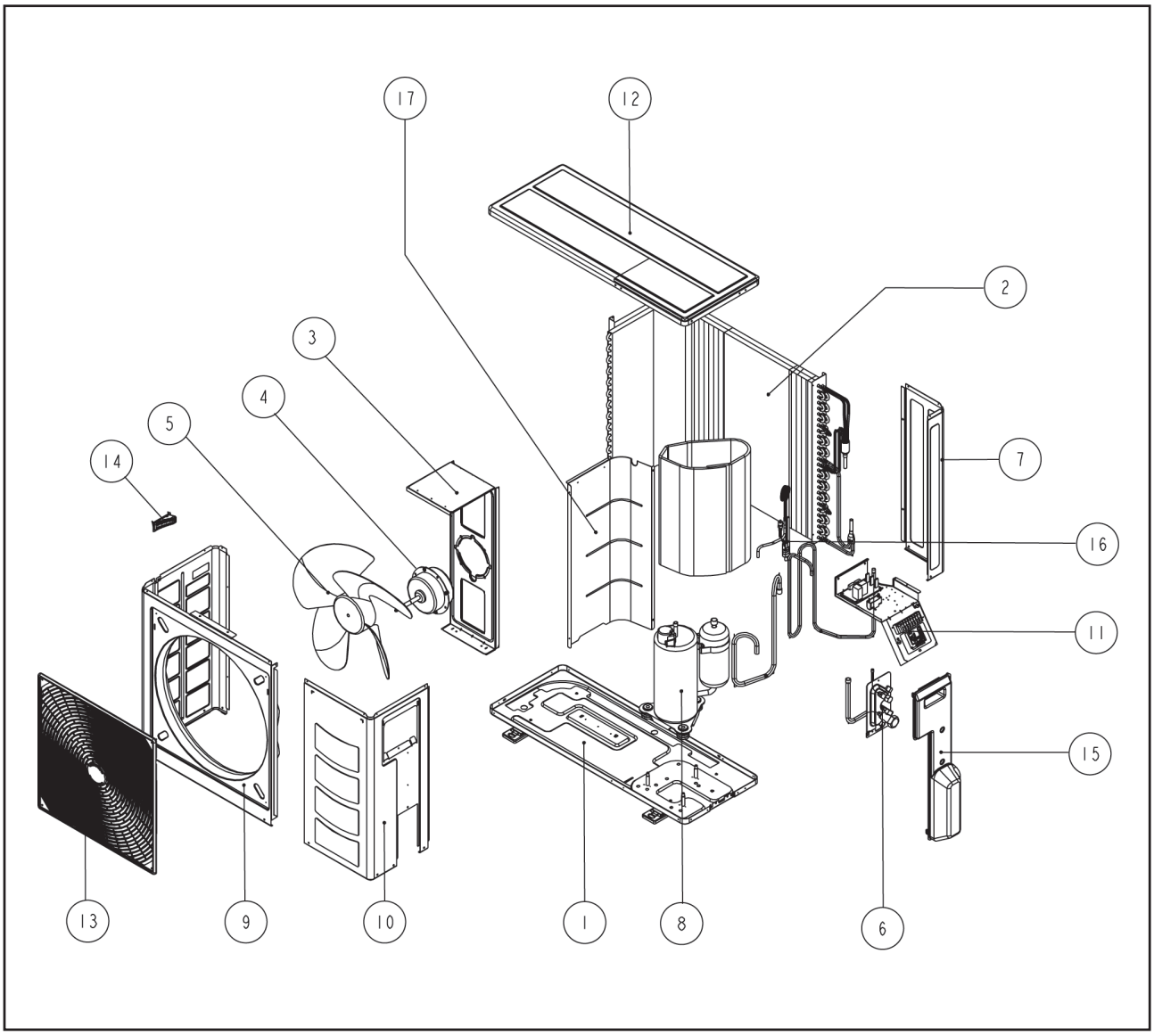
## MODEL: M5LC 025CR / 028CR




| No | Descriptions | Part No |
|---|---|---|
| 1 | Assy. Base Pan | R50014073884 |
| 2 | Assy. Outdoor Coil | |
| | MLC 025CR/028CR | R50024077092 |
| | M5LC 025CR/028CR | R50024075147 |
| 3 | Motor Bracket | R01014070948 |
| 4 | Fan Motor | |
| | M5LC/MLC 025CR | R03039023391 |
| | M5LC/MLC 028CR | R03039024538 |
| 5 | Fan Blade | R03019023393 |
| 6 | Valve Bracket | R50014073890 |
| 7 | Assy. Flare Valve 3 Ways 5/8" | |
| | MLC 025CR/028CR | R50054072863 |
| | M5LC 025CR/028CR | R50059023336 |
| 8 | Assy. Flare Valve 2 Ways 3/8" | |
| | MLC 025CR/028CR | R50059022577 |
| | M5LC 025CR | R50059023334 |
| | Assy. Flare Valve 3 Ways 3/8" | |
| | M5LC 028CR | R50059024820 |
| 9 | Back Panel, Right | R01014070950 |
| 10 | Compressor | |
| | MLC 025CR | R04019019032 |
| | MLC 028CR | R04019012828 |
| | M5LC 025CR/028CR | R04019020449 |

| No | Descriptions | Part No |
|---|---|---|
| 11 | Front Panel, Left | R01014070947 |
| 12 | Service Panel | R01014070949 |
| 13 | Terminal Cover Panel | R01014070838 |
| 14 | Assy. Control Panel | |
| | M5LC/MLC 025CR | R50044077198 |
| | MLC 028CR | R50044080649 |
| | M5LC 028CR | R50044080650 |
| 15 | Top Panel | R01014070596 |
| 16 | Assy. Front Grille | R50124072880 |
| 17 | Plastic Handle, Side | R12014057948 |
| 18 | Assy. Valve Cover | R50124073905 |
| 19 | Assy.Cap Tube | |
| | MLC 025CR | R50024077286 |
| | MLC 028CR | R50024080186 |
| | M5LC 025CR | R50024078311 |
| | M5LC 028CR | R50024080312 |
| 20 | Assy. 4 Way Valve | |
| | MLC 025CR/028CR | R05019004158 |
| | M5LC 025CR/028CR | R05019016937 |
| 21 | Partition | R01014070951 |
| 22 | Plastic Handle, Front | R12014070955 |

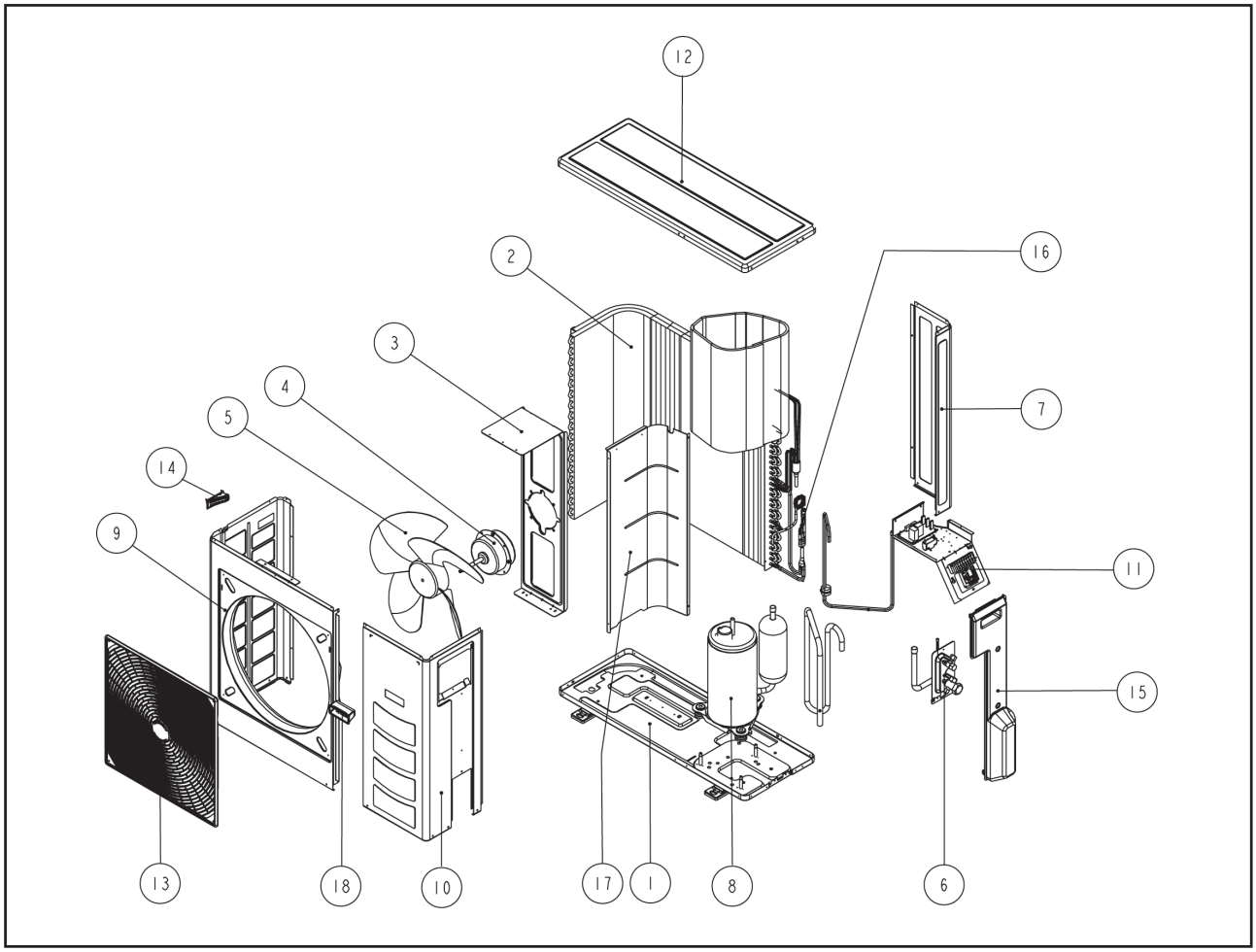
## Model : M5LC 020C (3 PHASE)




| No | Descriptions | Part No |
|---|---|---|
| 1 | ASSY,PAN BASE (5SL20C/CR) | R50014078281 |
| 2 | ASSY,OUTDOOR COIL (5SL20C)2RX28THX18FPI | R50024079078 |
| 3 | BRACKET MOTOR (SL20C/CR) | R01014070601 |
| 4 | MOTOR, MSL20C/25C-501 64W WELLING CHINA | R03039023391 |
| 5 | FAN PROPELLER, ¥460 0Z40700 SUNWILL CHIN | R03019023393 |
| 6 | ASSY,VALVE BRACKET (5SL20C/CR) | R50014078280 |
| 7 | PANEL RIGHT BACK (SL20C/CR) | R01014070599 |
| 8 | COMPRESSOR, 5KS205PAB01 MATSUSHITA | R04019029246 |
| 9 | PANEL FRONT/LEFT (SL20C/CR) | R01014070597 |
| 10 | PANEL SERVICE (SL20C/CR) | R01014070598 |
| 11 | ASSY CONTROL PANEL (5SL20C 3PH) | R50044092272 |
| 12 | PANEL TOP (SL20C/25C/28C/CR) | R01014070596 |
| 13 | ASSY FRONT GRILLE (SL20C/25C/28C/CR) | R50124072880 |

| No | Descriptions | Part No |
|---|---|---|
| 14 | PLASTIC,HANDLE SL07C/09C/10C/15C/CR | R12014057948 |
| 15 | ASSY VALVE COVER (SL20C/CR) | R50124072885 |
| 16 | ASSY,CAPILLARY TUBE (5SL20C) | R50024081921 |
| 17 | PARTITION (SL20C/CR) | R01014070603 |
| **Parts Not In The Diagram** | | |
| | ASSY,VALVE 3-WAY(1/2")JB48420-1MA(R410A) | R50059023335 |
| | ASSY,VALVE 2-WAY(1/4")JA28493-2MA(R410A) | R50059023334 |
| | PANEL TERMINAL COVER (SL20C/25C/28C/CR) | R01014070838 |
| | CAPACITOR, CMPSR 3.5uF/450V(TAB250)Shizu | R04029026759 |
| | CAPACITOR, CMPSR 50uF/450VAC Shizuki | R04029026779 |
| | CLAMP, CAPACITOR 126.0mm | R07054028872 |
| | ASSY TERMINAL PANEL (SL20C/25C/28C/CR) | R50014072877 |
| | PHASE PROTECTOR, PP1.03 NO SENSOR EXPORT | R04089018834 |

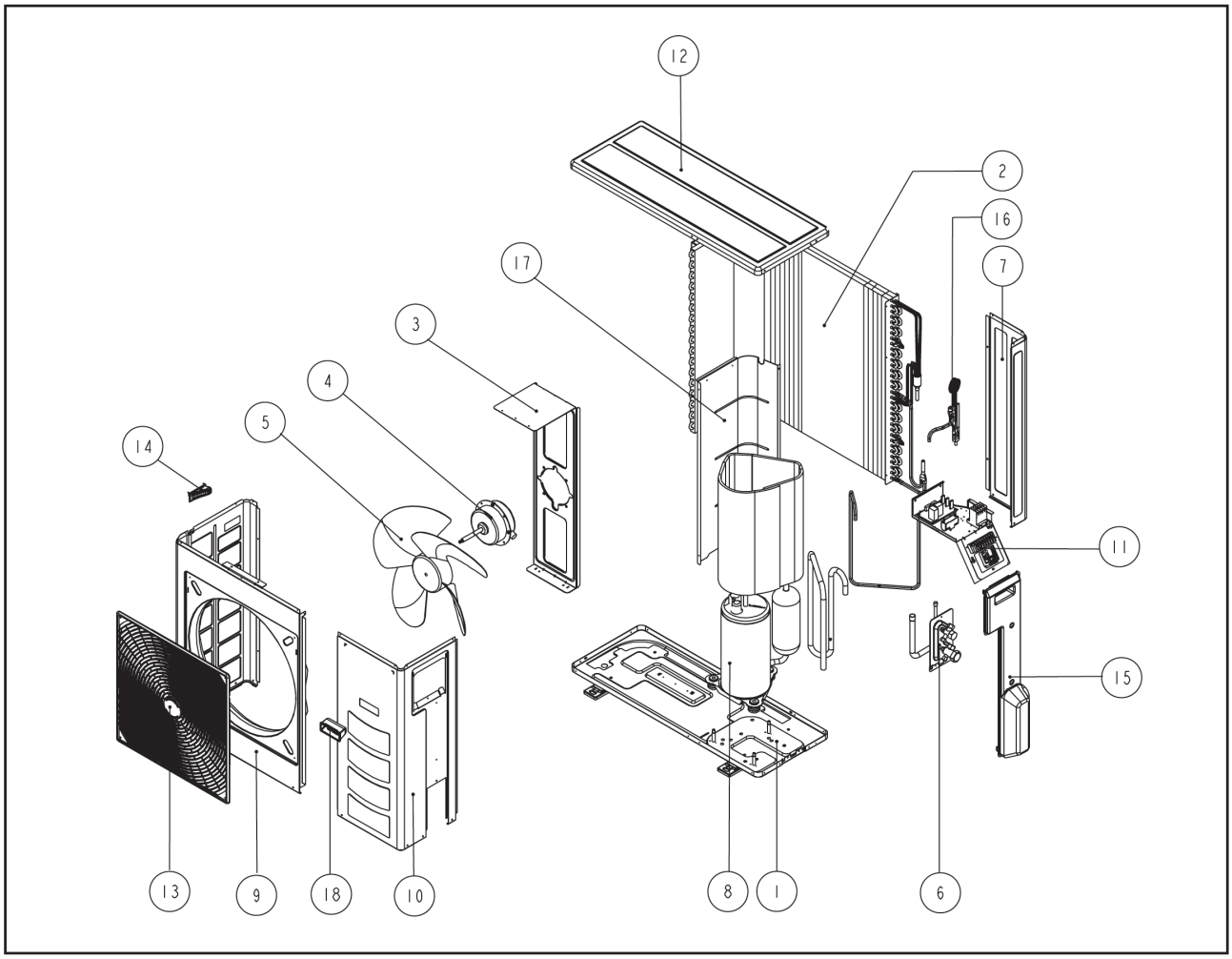
## Model : M5LC 025C (3 PHASE)




| No | Descriptions | Part No |
|---|---|---|
| 1 | ASSY PAN BASE (SL20/25/28C(R)) | R50014073884 |
| 2 | ASSY,OUTDOOR COIL (5SL25C)2RX34THX18FPI | R50024079238 |
| 3 | BRACKET MOTOR (SL25C/28C/CR) | R01014070948 |
| 4 | MOTOR, MSL20C/25C-501 64W WELLING CHINA | R03039023391 |
| 5 | FAN PROPELLER, ¥460 0Z40700 SUNWILL CHIN | R03019023393 |
| 6 | ASSY,VALVE BRACKET (5SL25C/25CR) | R50014078321 |
| 7 | PANEL RIGHT BACK (SL25C/28C/CR) | R01014070950 |
| 8 | COMPRESSOR, 5JS270PAB01 MATSUSHITA | R04019029248 |
| 9 | PANEL FRONT / LEFT | R01014070947 |
| 10 | PANEL SERVICE (SL25C/28C/CR) | R01014070949 |
| 11 | ASSY CONTROL PANEL (5SL25C 3PH) | R50044092273 |
| 12 | PANEL TOP (SL20C/25C/28C/CR) | R01014070596 |
| 13 | ASSY FRONT GRILLE (SL20C/25C/28C/CR) | R50124072880 |
| 14 | PLASTIC,HANDLE SL07C/09C/10C/15C/CR | R12014057948 |

| No | Descriptions | Part No |
|---|---|---|
| 15 | ASSY VALVE COVER (SL25C/28C/CR) | R50124073905 |
| 16 | ASSY,CAPILLARY TUBE (5SL25C-3PHASE) | R50024092169 |
| 17 | PARTITION (SL25C/28C/CR) | R01014070951 |
| 18 | PLASTIC HANDLE FRONT (SL25C/28C/CR) | R12014070955 |
| **Parts Not In The Diagram** | | |
| | ASSY,VALVE 3 WAY(5/8")JB58264-2MA-R410 | R50059023336 |
| | ASSY,VALVE 2-WAY(1/4")JA28493-2MA(R410A) | R50059023334 |
| | PANEL TERMINAL COVER (SL20C/25C/28C/CR) | R01014070838 |
| | CAPACITOR, CMPSR 3.5uF/450V(TAB250)Shizu | R04029026759 |
| | CAPACITOR, CMPSR 45uF/450VAC Shizuki | R04029026778 |
| | CLAMP, CAPACITOR 126.0mm | R07054028872 |
| | ASSY TERMINAL PANEL (SL20C/25C/28C/CR) | R50014072877 |
| | PHASE PROTECTOR, PP1.03 NO SENSOR EXPORT | R04089018834 |

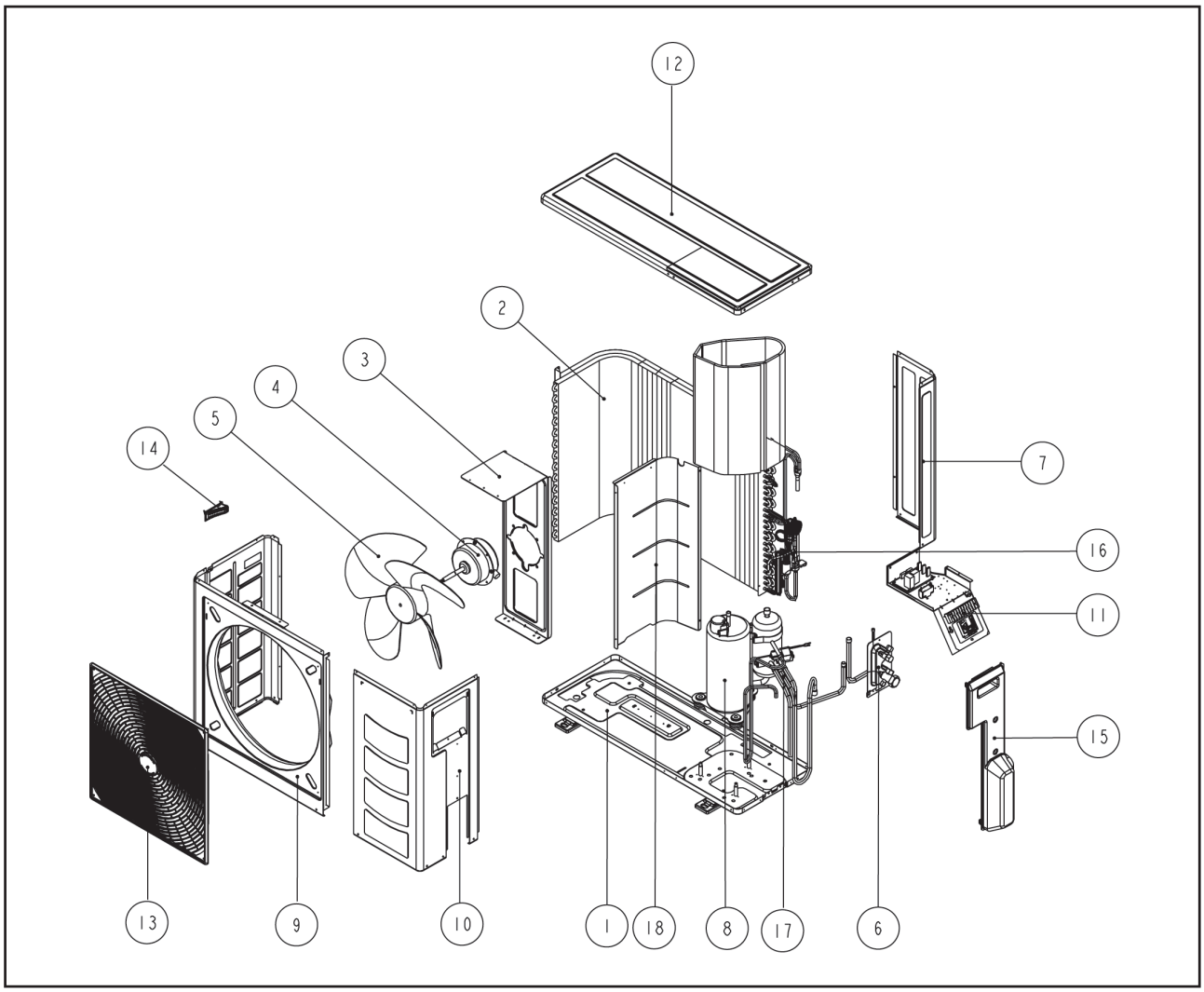
## Model : M5LC 028C (3 PHASE)




| No | Descriptions | Part No |
|---|---|---|
| 1 | ASSY PAN BASE (SL20/25/28C(R)) | R50014073884 |
| 2 | ASSY,OUTDOOR COIL (5SL25C)2RX34THX18FPI | R50024079238 |
| 3 | BRACKET MOTOR (SL25C/28C/CR) | R01014070948 |
| 4 | MOTOR, YDK75-6S/MSL28C-501-WL | R03039024538 |
| 5 | FAN PROPELLER, ¥460 0Z40700 SUNWILL CHIN | R03019023393 |
| 6 | ASSY,VALVE BRACKET (5SL28C/CR) | R50014080371 |
| 7 | PANEL RIGHT BACK (SL25C/28C/CR) | R01014070950 |
| 8 | COMPRESSOR, 5JS315PAB01 MATSUSHITA | R04019029629 |
| 9 | PANEL FRONT / LEFT | R01014070947 |
| 10 | PANEL SERVICE (SL25C/28C/CR) | R01014070949 |
| 11 | ASSY CONTROL PANEL (5SL28C 3PH) | R50044092274 |
| 12 | PANEL TOP (SL20C/25C/28C/CR) | R01014070596 |
| 13 | ASSY FRONT GRILLE (SL20C/25C/28C/CR) | R50124072880 |
| 14 | PLASTIC,HANDLE SL07C/09C/10C/15C/CR | R12014057948 |

| No | Descriptions | Part No |
|---|---|---|
| 15 | ASSY VALVE COVER (SL25C/28C/CR) | R50124073905 |
| 16 | ASSY,CAPILLARY TUBE (5SL28C) | R50024079593 |
| 17 | PARTITION (SL25C/28C/CR) | R01014070951 |
| 18 | PLASTIC HANDLE FRONT (SL25C/28C/CR) | R12014070955 |
| **Parts Not In The Diagram** | | |
| | ASSY,VALVE 3 WAY(5/8")JB58264-2MA-R410 | R50059023336 |
| | ASSY,3 WAY VALVE (3/8")5SL28C/CR | R50059024820 |
| | PANEL TERMINAL COVER (SL20C/25C/28C/CR) | R01014070838 |
| | CAPACITOR, CMPSR 5uF/450V 50/60Hz Shizuk | R04029026966 |
| | CAPACITOR, CMPSR 45uF/450VAC Shizuki | R04029026778 |
| | CLAMP, CAPACITOR 126.0mm | R07054028872 |
| | ASSY TERMINAL PANEL (SL20C/25C/28C/CR) | R50014072877 |
| | PHASE PROTECTOR, PP1.03 NO SENSOR EXPORT | R04089018834 |

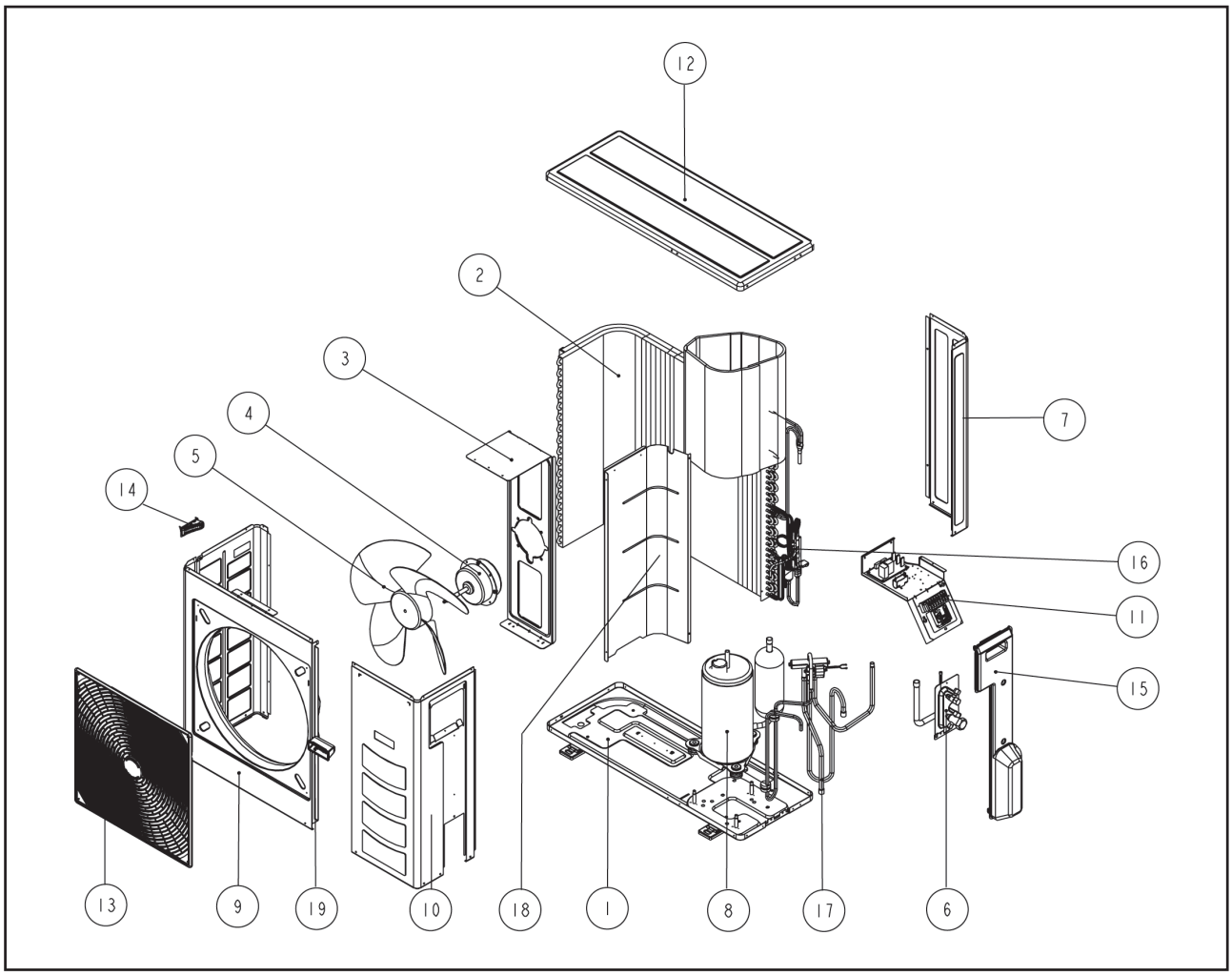
## Model : M5LC 020CR (3 PHASE)




| No | Descriptions | Part No |
|---|---|---|
| 1 | ASSY,PAN BASE (5SL20C/CR) | R50014078281 |
| 2 | ASSY,OUTDOOR COIL (5SL20C/CR-2RX28TH) | R50024075143 |
| 3 | BRACKET MOTOR (SL20C/CR) | R01014070601 |
| 4 | MOTOR,YDK64-6C/MSL25C-501-WL | R03039023391 |
| 5 | FAN PROPELLER, ¥460 0Z40700 SUNWILL CHIN | R03019023393 |
| 6 | ASSY,VALVE BRACKET (5SL20C/CR) | R50014078280 |
| 7 | PANEL RIGHT BACK (SL20C/CR) | R01014070599 |
| 8 | COMPRESSOR, 5KS205PAB01 MAT | R04019029246 |
| 9 | PANEL FRONT/LEFT (SL20C/CR) | R01014070597 |
| 10 | PANEL SERVICE (SL20C/CR) | R01014070598 |
| 11 | ASSY CONTROL PANEL (5SL20CR 3PH) | R50044092275 |
| 12 | PANEL TOP (SL20C/25C/28C/CR) | R01014070596 |
| 13 | ASSY FRONT GRILLE (SL20C/25C/28C/CR) | R50124072880 |
| 14 | PLASTIC,HANDLE SL07C/09C/10C/15C/CR | R12014057948 |

| No | Descriptions | Part No |
|---|---|---|
| 15 | ASSY VALVE COVER (SL20C/CR) | R50124072885 |
| 16 | ASSY,CAPILLARY TUBE (5SL20CR) | R50024081904 |
| 17 | ASSY,TUBING 4-WAY VALVE (5SL20CR) | R50024080655 |
| 18 | ASSY PARTITION (SL20C/CR) | R50064072871 |
| **Parts Not In The Diagram** | | |
| | ASSY,VALVE 3-WAY(1/2")JB48420-1MA(R410A) | R50059023335 |
| | ASSY,VALVE 2-WAY(1/4")JA28493-2MA(R410A) | R50059023334 |
| | PANEL TERMINAL COVER (SL20C/25C/28C/CR) | R01014070838 |
| | CAPACITOR, CMPSR 3.5uF/450V(TAB250)Shizu | R04029026759 |
| | CAPACITOR, CMPSR 50uF/450VAC Shizuki | R04029026779 |
| | CLAMP, CAPACITOR 126.0mm | R07054028872 |
| | ASSY TERMINAL PANEL (SL20C/25C/28C/CR) | R50014072877 |
| | VALVE, REV 4 WAY SHF-7H-34U(RK) SHANHUA | R05019016937 |
| | PHASE PROTECTOR, PP1.03 NO SENSOR EXPORT | R04089018834 |

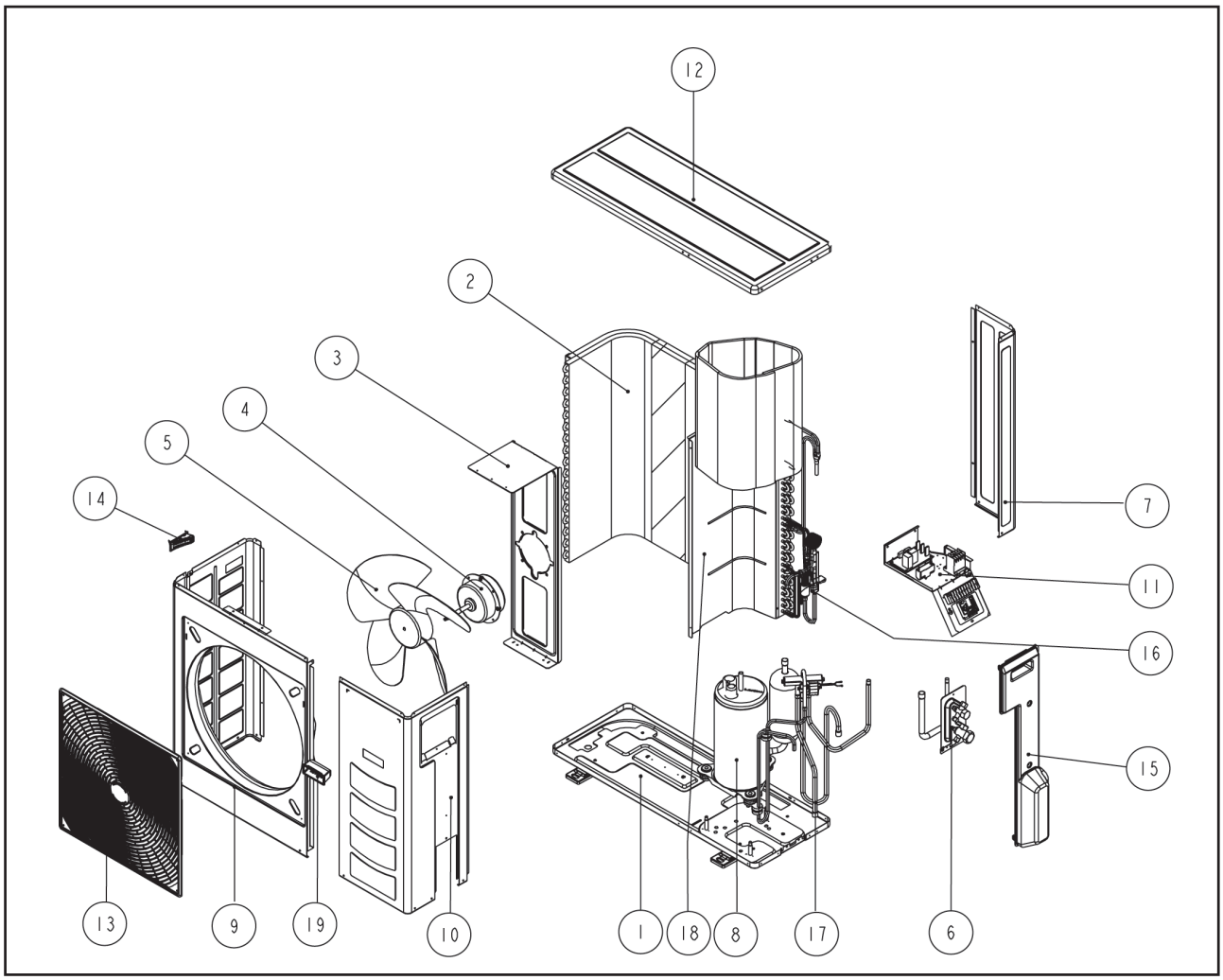
## Model : M5LC 025CR (3 PHASE)




| No | Descriptions | Part No |
|---|---|---|
| 1 | ASSY PAN BASE (SL20/25/28C(R)) | R50014073884 |
| 2 | ASSY. OUTDOOR COIL (5SL25CR/28CR) | R50024075147 |
| 3 | BRACKET MOTOR (SL25C/28C/CR) | R01014070948 |
| 4 | MOTOR, MSL20C/25C-501 64W WELLING CHINA | R03039023391 |
| 5 | FAN PROPELLER, ¥460 0Z40700 SUNWILL CHIN | R03019023393 |
| 6 | ASSY,VALVE BRACKET (5SL25C/25CR) | R50014078321 |
| 7 | PANEL RIGHT BACK (SL25C/28C/CR) | R01014070950 |
| 8 | COMPRESSOR, 5JS270PAB01 MATSUSHITA | R04019029248 |
| 9 | PANEL FRONT / LEFT | R01014070947 |
| 10 | PANEL SERVICE (SL25C/28C/CR) | R01014070949 |
| 11 | ASSY CONTROL PANEL (5SL25CR 3PH) | R50044092276 |
| 12 | PANEL TOP (SL20C/25C/28C/CR) | R01014070596 |
| 13 | ASSY FRONT GRILLE (SL20C/25C/28C/CR) | R50124072880 |
| 14 | PLASTIC,HANDLE SL07C/09C/10C/15C/CR | R12014057948 |

| No | Descriptions | Part No |
|---|---|---|
| 15 | ASSY VALVE COVER (SL25C/28C/CR) | R50124073905 |
| 16 | ASSY,CAPILLARY TUBE (5SL25CR-3PHASE) | R50024092178 |
| 17 | ASSY,TUBING 4-WAY VALVE (5SL25CR) | R50024080572 |
| 18 | ASSY PARTITION (SL25C/28C/CR) | R50064073900 |
| 19 | PLASTIC HANDLE FRONT (SL25C/28C/CR) | R12014070955 |
| **Parts Not In The Diagram** | | |
| | ASSY,VALVE BRACKET (5SL25C/25CR) | R50014078321 |
| | ASSY,VALVE 3 WAY(5/8")JB58264-2MA-R410 | R50059023336 |
| | PANEL TERMINAL COVER (SL20C/25C/28C/CR) | R01014070838 |
| | CAPACITOR, CMPSR 3.5uF/450V(TAB250)Shizu | R04029026759 |
| | CAPACITOR, CMPSR 45uF/450VAC Shizuki | R04029026778 |
| | CLAMP, CAPACITOR 126.0mm | R07054028872 |
| | ASSY TERMINAL PANEL (SL20C/25C/28C/CR) | R50014072877 |
| | PHASE PROTECTOR, PP1.03 NO SENSOR EXPORT | R04089018834 |

## Model : M5LC 028CR (3 PHASE)




| No | Descriptions | Part No |
|---|---|---|
| 1 | ASSY PAN BASE (SL20/25/28C(R)) | R50014073884 |
| 2 | ASSY. OUTDOOR COIL (5SL25CR/28CR) | R50024075147 |
| 3 | BRACKET MOTOR (SL25C/28C/CR) | R01014070948 |
| 4 | MOTOR, YDK75-6S/MSL28C-501-WL | R03039024538 |
| 5 | FAN PROPELLER, ¥460 0Z40700 SUNWILL CHIN | R03019023393 |
| 6 | ASSY,VALVE BRACKET (5SL28C/CR | R50014080371 |
| 7 | PANEL RIGHT BACK (SL25C/28C/CR) | R01014070950 |
| 8 | COMPRESSOR, 5JS315PAB01 MATSUSHITA | R04019029629 |
| 9 | PANEL FRONT / LEFT | R01014070947 |
| 10 | PANEL SERVICE (SL25C/28C/CR) | R01014070949 |
| 11 | ASSY CONTROL PANEL (5SL28CR 3PH) | R50044092277 |
| 12 | PANEL TOP (SL20C/25C/28C/CR) | R01014070596 |
| 13 | ASSY FRONT GRILLE (SL20C/25C/28C/CR) | R50124072880 |
| 14 | PLASTIC,HANDLE SL07C/09C/10C/15C/CR | R12014057948 |

| No | Descriptions | Part No |
|---|---|---|
| 15 | ASSY VALVE COVER (SL25C/28C/CR) | R50124073905 |
| 16 | ASSY,CAPILLARY TUBE (5SL25CR-3PHASE) | R50024092178 |
| 17 | ASSY, TUBING 4WV (5SL28CR) | R50024080540 |
| 18 | ASSY PARTITION (SL25C/28C/CR) | R50064073900 |
| 19 | PLASTIC HANDLE FRONT (SL25C/28C/CR) | R12014070955 |
| **Parts Not In The Diagram** | | |
| | ASSY,3 WAY VALVE (3/8")5SL28C/CR | R50059024820 |
| | ASSY,VALVE 2-WAY(1/4")JA28493-2MA(R410A) | R50059023334 |
| | PANEL TERMINAL COVER (SL20C/25C/28C/CR) | R01014070838 |
| | CAPACITOR, CMPSR 5uF/450V 50/60Hz Shizuk | R04029026966 |
| | CLAMP, CAPACITOR 126.0mm | R07054028872 |
| | ASSY TERMINAL PANEL (SL20C/25C/28C/CR) | R50014072877 |
| | PHASE PROTECTOR, PP1.03 NO SENSOR EXPORT | R04089018834 |

Products manufactured in an ISO certified facility.
This document contains the most current product information as of this printing. For the most up-to-date product information, please go to www.mcquay.com.

McQuay® International

© 2007 McQuay International +1 (800) 432-1342 www.mcquay.com